

DAVIS GRAHAM & STUBBS

Via Federal Express

Mr. Stephen Capuyan
Enforcement Officer
U.S. Environmental Protection Agency
EPA Region 6
1445 Ross Avenue
Dallas, Texas 75202-2733.

Re: Disc of documents responsive to EPA's June 8, 2011 CERCLA § 104(e) Information
Request San Mateo Creek Basin Legacy Mine Sites
Cibola/McKinley County, New Mexico

Stephen,

I have enclosed the disc of documents that we intended to send you yesterday along with UNC's August 29, 2011 Interim Response to EPA's Information Request. Many of the documents on this disc are confidential business information, and are designated as such.

If you have any questions, please don't hesitate to call me at 303-892-7409.

Sincerely,



Robert W. Lawrence



Davis Graham & Stubbs LLP

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SUPERFUND DIV.
DIRECTOR'S OFC.

August 29, 2011

Via Federal Express

Mr. Stephen Capuyan, Enforcement Officer
 Superfund Enforcement Assessment Section (6SF-TE)
 U.S. Environmental Protection Agency, Region 6
 1445 Ross Avenue
 Dallas, TX 75202-2733

Re: Response to EPA's June 8, 2011 104(e) Information Request
 San Mateo Creek Basin Legacy Uranium Sites (A6K6)
 Cibola/McKinley County, New Mexico, SSID No. A6K6

Dear Mr. Capuyan:

This letter and its accompanying attachments are submitted on behalf of, and constitute the interim response of, United Nuclear Corporation ("UNC") to the United States Environmental Protection Agency's ("EPA") June 8, 2011 "104(e) Information Request, San Mateo Creek Basin Legacy Uranium Sites, Cibola/McKinley County, New Mexico, SSID No. A6K6" (the "Request").

On July 5, 2011, Wren Stenger, of U.S. EPA Region 6, extended the deadline for UNC's response to the Request until August 29, 2011, stating "if a second extension should be requested by GE, the EPA requests GE submit an interim response by August 29, 2011." Given the number and volume of boxes, UNC greatly appreciates the extension of time to allow the preparation of this Interim Response.

UNC has used its best efforts to respond to this request and has diligently attempted to locate and review potentially responsive documents. Based upon the information we have reviewed thus far, it appears that other parties, and not UNC, are primarily responsible for the sites that are identified in the request. For example, at the Dysart No. 2 Mine, it appears that Rio de Oro Company operated from 1959-1961, and that Mid-Continent Exploration Company also may have undertaken some activities in 1959. The Homestake-Sapin Partnership, in which a UNC predecessor had some interest, apparently engaged in activities at the mine from 1961-1962, but Homestake indemnified UNC. Similarly, other companies or persons, such as Boyles Brothers, Entra Corp., and Stella Dysart, operated at the Mary No. 1 Mine (a/k/a Dysart No. 3) from 1959-1964. The Homestake-Sapin Partnership only appears to have engaged in activities in 1964-1965, and Homestake provided an indemnity to UNC for the Mary No. 1 Mine as well.

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August 29, 2011
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At the Section 32 Mine, Homestake operated from 1958-1961, and the Homestake-Sapin Partnership from 1961-1968. Like the Mary No. 1 Mine and Dysart No. 2, Homestake agreed to indemnify UNC for the Section 32 Mine.

The other mines that are the subject of EPA's Request have been finally reclaimed or await confirmation of final reclamation. UNC reclaimed the Sandstone Mine, and the New Mexico Energy, Minerals and Natural Resources Departments, Mining and Minerals Division ("NMMMD") released the mine from the requirements of the New Mexico Mining Act. Reclamation at the Ann Lee and John-Bill Mines is complete pending an inspection of successful revegetation efforts.

In sum, at the mining sites that are the subject of EPA's request, UNC's predecessors or UNC either: (1) had no involvement (Section 12, subject to further investigation); (2) had limited involvement (Dysart No. 2, Mary No. 1 and Section 32 Mines); or (3) are indemnified by another company (Dysart No. 2, Mary No. 1 and Section 32 Mines). UNC has reclaimed the Sandstone, Ann Lee and John-Bill mine sites. NMMMD has released the Sandstone Mine from further reclamation and other requirements under the New Mexico Mining Act, and the John-Bill and Ann Lee Mines only await a final NMMMD inspection before they also are released.

To respond to this Request, UNC, and GE on behalf of UNC¹, used their best efforts to investigate and review all information that was available, to the best of UNC's knowledge. Our investigation and review is ongoing. To date, we have identified and reviewed over 130 potentially responsive oversize boxes of historic documents. UNC, and GE on behalf of UNC, are conducting this investigation to respond in good faith to the Request and to fulfill UNC's obligations under section 104(e) of CERCLA, 42 U.S.C. § 9604(e).

This letter, and the attachments hereto, are UNC's Interim Response to EPA's Request. Attachment A is UNC's interim response to the questions EPA presented in its Request. Attachment B lists references by Bates numbers to documents responsive to specific questions in the Request that we are producing electronically on discs included with this Response. Attachment C lists borehole and gamma log information locations, in response to Question 2.

UNC has designated certain documents produced with this Response as confidential business information in accordance with section 104(e)(7) of CERCLA, 42 U.S.C. § 9604(e)(7) and 40 C.F.R. Part 2, Subpart B. These documents satisfy regulatory/case law criteria for confidential business information, and must be maintained as such. The confidential information in these documents has been maintained in such a manner that it has not been accessible to unauthorized persons. Among other things, if this confidential information is publicly disclosed,

¹ While GE is assisting UNC with the preparation of this response, EPA's Request was appropriately submitted to UNC. In *United States v. Bestfoods*, 524 U.S. 51 (1998), the Supreme Court held that a parent corporation is not liable for response costs at a subsidiary's facility unless the parent itself engaged in pollution-related activity at the facility to the extent that the parent acted as an "operator" under CERCLA, or the subsidiary's corporate veil can be pierced. Neither of these theories applies here, and GE expressly disclaims and reserves its right to contest any CERCLA liability that might be imputed to GE from its indirect subsidiary UNC.

Mr. Stephen Capuyan, Enforcement Officer
August 29, 2011
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the privacy or business interests of UNC or persons employed or formerly employed by UNC may be damaged or otherwise impaired. Therefore, UNC respectfully requests that EPA treat all documents and information designated as confidential business information as confidential to the full extent provided under law, including without limitation 40 C.F.R. Part 2, Subpart B, until further notice from UNC.

By separate letter today to Pamela Travis, ORC, from Jane Gardner, UNC requested an additional sixty (60) days (until October 28, 2011) to provide a final response to the Request. Given the large volume and condition of documents that UNC will review, UNC expects that it will take the full 60 days to complete its review and finalize its response to the Request. UNC will use its best efforts to complete its review and response within this 60-day period. UNC anticipates that it will provide additional documents in its October response, and will supplement as needed its Interim Response to the questions in the Request at that time.

If you have any questions, please call me and I will make the appropriate arrangements.
Thank you.

Sincerely,



Robert W. Lawrence

for

DAVIS GRAHAM & STUBBS LLP

ON BEHALF OF UNITED NUCLEAR CORPORATION

cc: Jane W. Gardner, Esq.
Mary Sullivan

ATTACHMENT A**UNC INTERIM RESPONSE TO EPA'S JUNE 8, 2011 104(e) INFORMATION REQUEST, SAN MATEO CREEK BASIN LEGACY URANIUM SITES (A6K6) CIBOLA/MCKINLEY COUNTY, NEW MEXICO SSID NO. A6K6**

UNC responds to EPA's June 8, 2011, 104(e) Information Request, San Mateo Creek Basin Legacy Uranium Sites (A6K6), Cibola/McKinley County, New Mexico (the "Information Request" or "Request") as follows:

INTERIM RESPONSES TO QUESTIONS

Each response that follows is subject to the General Objections and the Objections to the Instructions and Definitions in Attachment C.² Additionally, UNC has asserted Specific Objections to individual questions, which are stated in response to that particular question. Without waiving or limiting their General Objections, Objections to the Instructions and Definitions, or Specific Objections, UNC has, to the best of its knowledge, responded to the Request as completely and accurately as possible at this time in this Interim Response.³

In the text that follows, EPA's Request is presented in italics, followed by UNC's non-italicized Interim Response.

Mining Operations

1. *Please identify those individuals who assisted in the preparation of this information response. For each individual, providing the following: name, current or last-known address and telephone number.*

UNC Response:

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² UNC makes the General Objections to the Request and Objections to the Instructions and Definitions set forth in Attachment C (the "Objections"), and incorporates its Objections into each of the written responses that follow as if set forth fully therein.

³ EPA's Request included a page of "Background Information". Information Request, p. 2 of 2. UNC does not specifically address the Background Information in this Response. By providing this Response, UNC does not admit and reserves its right to contest the Background Information.

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The following outside counsel for UNC, and GE on behalf of UNC, also assisted with the preparation of this Response:

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Because of the volume of documents and time limitations, other attorneys, paralegals, and staff at Davis Graham & Stubbs LLP assisted in the review and processing of documents for this Interim Response. If EPA believes it necessary, UNC will identify those additional persons upon request.

1. *(Continued.) For each mine listed below, answer questions 2 through 7.*

Mine Name	Known Alias(es)
<i>Ann Lee</i>	<i>Phillips No. 1, Section 28, Spider Rock</i>
<i>John Bully</i>	<i>John Bully Shaft</i>
<i>Sandstone</i>	<i>Section 34</i>
<i>Section 32</i>	<i>UN-HP</i>
<i>Section 12</i>	<i>Dysart Group, Tana and Alto</i>
<i>Dysart No. 2</i>	<i>Section 11, SE Shaft</i>
<i>Mary No. 1</i>	<i>Section 11, NWQ, Dysart No. 3</i>

2. *Identify and describe any portion of the mine or assets at the mine owned, operated, leased, or mined or explored by the Respondent, and the dates during which the mine was owned, operated, leased, mined, or explored, including areas where borings were taken, and provide copies of all documents evidencing or relating to such ownership, operation, or lease, including but not limited to purchase and sale agreements, royalty payments, deeds, and leases including mining leases, and gravel and tailings leases.*

UNC Response: Much of the information in this Response comes from a confidential internal UNC document, dated June 21, 1972 and entitled, "New Mexico Uranium Exploration, Mining and Milling," [Bates Nos. SM0011472 – SM0011563] (the "1972 UNC Report"). The 1972 UNC Report is confidential business information. As stated in the 1972 UNC Report, "This report and all information contained herein is to be treated confidentially and shall not under any circumstances be made public information, copied or duplicated in any manner whatsoever." The report also contains the following caveat:

This report is intended only as a summary of information relating to properties held in various manners for exploration and production of uranium in New Mexico. Although it is believed that the information presented is accurate, no representations or

warranties are made as to the accuracy or completeness of the information or as to the interpretation of the potential of the properties for production of uranium, and United Nuclear Corporation shall have no liability in connection with such information.

1972 UNC Report, p. i.⁴ UNC's responses below based upon the 1972 UNC Report and other historic documents are subject to this caveat.

a. Ann Lee: The Ann Lee Mine is also known as Section 28, Phillips No. 1, Anna Lee Mine, Anne Lee Mine, and Spider Rock. The mine is located in McKinley County, New Mexico in Section 28, T14N /R9W, approximately 22 miles northwest of Grants, New Mexico. See New Mexico Energy, Minerals and Natural Resources Department, Mining and Minerals Division, Mining Act Reclamation Bureau report entitled, "Prior Reclamation Inspection Report and Recommendation for Release or [sic] Permit Requirement, Anne Lee Mine," dated September 18, 1995, Bates Nos. SM001134 – SM001144 (the "NMMMD 1995 Report"). In "Uranium Mines and Deposits in the Grants District, Cibola and McKinley Counties, New Mexico," New Mexico Bureau of Mines and Mineral Resources Open File Report 353, McLemore and Chenowith, revised December 1991, Bates Nos. SM0011439 – SM0011471 (the "1991 BOM Uranium Mines Report"), the Ann Lee Mine is identified as "14N.9W.27.310" and also as "Ann Lee (Spider Rock)" at "14N.9W.28.144."

From 1958-1963, Phillips Petroleum Co. operated the mine. From 1963-1972, and in 1982, UNC operated the mine.⁵ The 1991 BOM Uranium Mines Report indicates in its 1971-1991 Production Table that production occurred in "1971-1972, 1982 – United Nuclear" and "1977-1982-Spider Rock", but does not identify years of operation prior to 1971. *Id.* at Table 2. The Report adds,

The property consists of 10 patented and 19 unpatented Ann Lee mining claims, which were held by a lease dated February 6, 1956. The lease will continue in effect so long as minerals are being mined or mining operations are being conducted on the property." 1972 UNC Report, p. 33. Production royalties "is a sliding scale from 10%-21% of the field market price of ore. The royalty on U3O8 recovered from mine water was 50 cents per pound of U3O8 recovered.

Id.

Only approximately 1/10 of an acre on section 28 was disturbed during mining operations. Additional portions of sections 27 and 28 were disturbed by activities conducted by the United States Department of Energy unrelated to the Ann Lee Mine and UNC's activities. See NMMMD 1995 Report at UNC 66670, Bates No. SM0011135.

⁴ This caveat applies to all of the information contained herein that is taken from historic documents.

⁵ We have been unable to verify these dates thus far.

The NMMMD 1995 Report provides,

Commercial grade uranium was first discovered in the upper Westwater Canyon Sandstone Member by the Strategic Minerals Section of Phillips Petroleum Company in early 1956. Subsequently, nearly 300 exploration holes were drilled to an average depth of approximately 750 feet. The existence of an ore body of about one million tons was established, and sinking of the Anne Lee shaft commenced in 1957. The shaft had two mining levels, a main level at a depth of 660 feet and a sublevel at a depth of 720 feet. Underground workings span the section in an east west direction, and at their widest point, expose part of the Westwater Canyon Sandstone Member formation for nearly 1000 feet in a north-south direction. . . . At the time the main Anne Lee ore body was first opened by mine workings, the level of water saturation coincided with the top of the ore at a point a few hundred feet northwest of the shaft. West of that point, except for a few small bodies of perched water. There are no surface water features in the area.

Id. at UNC 66670, Bates No. SM0011135.

An unedited Atomic Energy Commission manuscript by Ray Holmquist, entitled "The Discovery and Development of Uranium in the Grants Mineral Belt, New Mexico," dated June 1970, Bates No. SM0011304 – SM0011432 (the "1970 Grants Mineral Belt Report") provides:

Sec. 28 was located with 41 claims, several of which have been patented. Adrian Berryhill located the claims and leased them to Ranchers Exploration Co. who in turn subleased them to Phillips Pet. Co. Drilling was started in Nov. 1955 by Phillips on a farmout from Holly Uranium Co. and some ore was discovered in April 1956. There were six drill operating in June 1956 and an orebody had been discovered. A shaft site was selected in Sept. and a contract was let to Boyles Bros. in Dec. to sink a shaft. The shaft is 5 compartment, 18 X 9' in size. In June 1957 the shaft was down 485 feet. A pump station was installed at 400 feet depth and the water flow was 130 gpm. In Nov. 1957 a 46-inch hole was drilled south of the shaft to be used as an escapeway and vent hole. It was later cased to 36 inches. After the casing was set it collapsed at 150-foot depth after the mud was pumped out of it.

The shaft bottomed at 735 feet in Dec. 1957 and a station was cut at 660 feet depth. Drifting east and west from the shaft started in Feb. 1958 and a shipment of 433 tons of ore was sent to the Grants buying station. At this time there had been 800 feet of drifts driven and there were 36 men on the payroll working three shifts per day. The mine was making 475 gpm. In May 1959 sand filling was

started as a means of controlling the mined areas. By Oct. 1959 development had reached the west section line and was within 1000 feet of the east line. Production was about 750 tons per day. In Feb. 1960 the operator estimated that 35% of the known ore had been mined. Retreat had progressed 600 feet back from the west section line and production was about 650 tons per day. Stopping had reached within 500 feet of the east section line. . . .

In June 1961 an incline was started from the east end of the shaft to establish a track level low enough to go to the east property line and re[main] below the level of the ore. Later the shaft was deepened and a drift run to the new level which is 70 feet deeper than the 660-foot level. It was also used to develop the ore in the west part of Sec. 27.

On June 16, 1962 a mining contract was let to KSN Mining Co. to mine the Ann Lee ore. The contract called for 300 feet of development work per month and the track drift to the east was to be driven 3000 feet. Except for mill test lots all of the KSN mined ore was stockpiled at the mine. In Nov. 1962 the shaft was sunk 20 feet to allow for loading from the new level. In Jan. 1963 the shaft was concreted where it passed through the Brushy Basin shale and the slusher trench on the new level was also concreted.

On March 28, 1963 Phillips sold their Ambrosia Lake mines and mill to United Nuclear United agreed to honor the KSN contract at the Ann Lee but asked them to limit production to 5000 tons of ore per month. KSN reopened some of the old workings in the west end of the mine and recovered some of the pillars left by Phillips. Exploration south of the main trend near the shaft developed some important sources of ore. The mine went on a five shift per week basis on May 18, 1964. There were 60 men on the payroll and production was 6.5 tons per man shift.

KSN tried to find new ore trends north and south of the main trend and did find some ore trends south of the main orebody but found no new ore north of the main trend. Some of the workings west of the shaft were reopened to mine lower grade ore left during the original work. Radon and bad ground[?] was too much of a problem to make the effort profitable.

The main trend near the east section line became so spotty it was unprofitable to mine and a section of the main trend had to be left unmined. The KSN contract was terminated on Dec. 11, 1966 and United Nuclear took over. The Ann Lee workings were extended into Sec. 27 to the east and the ore up to the fault was mined through the Ann Lee workings.

To 1-1-70 the Ann Lee Mine produced 1,065,700 tons of .23% ore.

1970 Grants Mineral Belt Report, pp. 81-83.

b. John Bully: The Request identifies the “John Bully” mine. We have found only one document identifying information concerning the “John Bully” Mine. Based upon geographic coordinates, the Request may be referring to the “John-Bill” Mine, which is located near the Sandstone Mine. The John Bill Mine (as well as the Sandstone Mine) is located in McKinley County, New Mexico, in Section 34, T14N/R9W. *See* 1997 Public Notice, UNC 67354, Bates No. SM0011133; New Mexico Energy, Minerals and Natural Resources Department, Mining and Minerals Division, Mining Act Reclamation Bureau report entitled, “Prior Reclamation Inspection Report and Recommendation for Release or [sic] Permit Requirement, Sandstone and John Bill Mine,” dated September 18, 1995, UNC 66680-88, Bates Nos. SM0011564 – SM0011572 (the “NMMMD 1995 SS and JB Report”). The NMMMD 1995 SS and JB Report provides,

Of section 34, only two shaft sites (about 4 acres each) were actually disturbed during mining operations. . . . A mine-shaft head frame existed on each site until 1981 when the mines shut down. The head frames have since been removed. Two buildings were left on one site as permanent structures at the request of the lessee, Nina Waldee. Three additional small buildings have since been added by the landowner. The disturbed areas were seeded last fall. The post-mine land use is grazing . . . Approximately four acres in section 34 were disturbed by activities conducted by these two mines.

Id. Bates No. SM0011565, UNC 66681.

c. Sandstone: The Sandstone Mine is located in McKinley County, New Mexico, in Section 34, T14N/R9W. 1972 UNC Report, p. 34; NMMMD 1995 SS and JB Report. The 1991 BOM Uranium Report locates the Sandstone Mine at 14N.9W.34.424 and indicates that production occurred at the mine in periods between “1974-1980-United Nuclear.” *Id.* Other sources indicate that production occurred at the mine during the period from 1959-1980. *See* 1970 Grants Mineral Belt Report. According to the 1972 UNC Report,

The property consists of 18 patented and 27 unpatented mining claims which are held by a lease dated February 6, 1956. This is the same lease that covers the Ann Lee Mine, and all provisions, including the lease term and royalty obligations, are identical to those . . . for the Ann Lee Mine.

Id. at 33-34.

As noted above, the NMMMD 1995 Report indicates that Sandstone mine shut down in 1981, and the head frame was removed. *Id.* at UNC 66681, Bates Nos. SM0011565.

The 1995 NMMMD Report states that, "The surface estate is owned by UNC. Hecla Mining Company is the owner of the mineral estate. The surface rights are currently being leased to Ms. Nina Waldee." *Id.* at UNC 66681. The 1970 Grants Mineral Belt Report adds,

Adrian Berryhill located Sec. 34 with 45 claims. Through leases and assignments the property passed from Berryhill to Ranchers Exploration and Dev. Co. (Redco), to Holly Uranium Corp., to Phillips Pet. Co. Phillips drilled 400,000 feet of hole in 420 holes and discovered an estimated 2,200,000 tons of .20% ore. The ore was 875 feet deep and averaged 6½ feet thick. The shaft is a 12-foot diameter, circular concrete lined shaft 980 feet deep.

The shaft is equipped with one skip on guides 4 feet 8 inches apart and the service cage is on guides 9 feet 4 inches apart. There is a pipe compartment on one side of the skip and a manway on the other side. The service cage takes up half of the shaft cross-section.

Exploration drilling started in early 1959 and in Feb. 1957 there was one drill operating outlining the orebody. In Jan. 1958 bids for a shaft were advertised and in March and April the surface plant was under construction and shaft sinking started in April. The shaft was dry to 425 feet but there was some water in the lower Mancos shale at 490 feet. A pump station was made at 407 feet. At 560 feet in Aug. the shaft was making 120 gpm. At this time a 46-inch vent hole was being drilled NE of the shaft. It was cased with 7/8" steel, 32¼ ID.

The shaft was bottomed on March 10, 1959 and part of the slusher trench and pocket were complete. Water flow was 350 gpm. Phillips took over from Boyles Bros., the shaft contractors, in July 1959. In Dec. the track drift was 1000 feet west of the shaft and production was 250 tons per day. The mine was originally equipped for on[sic] ore; trackless equipment but was later changed over to below ore track equipment.

In February 1960 a large tonnage was added to the reserves by surface drilling that discovered a large orebody north of the shaft. . . The main ore trend was found to be a series of narrow trends instead of one large blanket deposit.

In April 1961 there were 75 men on hourly rate, production was 12-13,000 tons per month or 6 tons per manshift. In May a 54-inch vent hole was completed. In Oct. production was 400 tons per day with 120 men on three shifts. The track drift reached the west section 11 in Sept. 1962. In Nov. raises were started to the high ore west of the graben in the west part of the mine. On Dec. 16, 1962 the mine was flooded to the back of the station when

the cage ruptured the pump column. The stopes in the west end were holed to the Sec. 33 stopes in Jan. 1963. The 200-foot service raise to the upper ore in the west end was completed in March 1963 and an automatic hoist and cage were being installed. In March the crew was cut from 180 men to 30 men and the work week reduced to 40 hours.

About this time the completed stopes in the north part of the mine caved up to a water-bearing formation increasing the flow from that part of the mine to 1000 gpm . . . In Nov. 1963 the Church Rock pumps were installed in the mine to increase capacity. In May 1964 the men and materials cage in the west part of the mine was put in use.

All production was shut down on July 1, 1964 and most of the crew was moved to the San Mateo mine. In Aug. the crew was increased from 14 to 27 men and production resumed in the west end of the mine. In Aug. 1965 the west end pillars were being pulled and some small ore bodies south of the main trend were being developed. In Nov. 1965 a track drift was started northward to the Sec. 27 line. This drift was later connected to a 36-inch cased shaft that was drilled on the ore trend in Sec. 27.

Mine production to 1-1-70 was 1,002,600 tons of .18% ore.

1970 Grants Mineral Belt Report, pp. 87-89.

d. Section 32 Mine: The Section 32 Mine is located in Section 32, T14N/R9W in McKinley County, New Mexico. 1972 UNC Report, p. 67. The 1991 BOM Uranium Report states the location of the mine as 14N.9W.32.1221972. Documents indicate that production occurred at the mine during the period for 1958-1992. Operators were: 1958-1961, Homestake-New Mexico; 1961-1968, Homestake-Sapin; 1968-1981, UNC-Homestake; 1981-1982, Homestake. (To date, we have not confirmed these dates.) The 1991BOM Uranium Report states that production occurred during the following periods: "1971-1981- United Nuclear-Homestake, and 1982-Homestake."

Section 32 consists of 640 acres of land leased from the State of New Mexico. The term of the lease in 1972 was for 10 years and as long thereafter as minerals were produced in paying quantities. Annual rent was 5 cents per acre and production royalty was 5% of the net mill returns. 1972 UNC Report, p. 67. The 1970 Grants Mineral Belt Reports provides,

Sec. 32 is owned by the State of New Mexico. The mineral rights were leased to Andre Senotovitch and the lease then assigned to United Western Minerals Co. After the orebody was well delineated the lease was assigned to Homestake-New Mexico Partners, a partnership of Homestake Mining Co., United Western Minerals Co. and Rio de Oro Mining Co. United Western contributed the Sec. 32 ore body, Rio de Oro the S/2 of Sec. 11,

14-10 ore body and Homestake supplied the money to build the Homestake-New Mexico Partners mill and some money to develop the mines.

United Western started drilling in Oct. 1955 and in the first 10 holes one hole cut 16 feet of .52% ore. Of the next 19 holes, 10 were in ore. The holes were widely spaced and most were in the north part of the section. In Dec. 1955 after 35 holes had been drilled a DMEA drilling loan was applied for. DMEA drilling started in May 1956 and continued until July when all drilling was stopped. In Dec. 1956 Homestake-New Mexico Partners was formed and Centennial Dev. Corp. started a shaft in Jan. 1957. A 33" escape hole had been completed and cased in 1957. A Riddell mucker was used while sinking the main shaft. The shaft hit water at 440 feet in May 1957. Centennial's shaft sinking contract went on a cost-plus basis after the water level was reached. The shaft was bottomed at 650 feet in July 1957 and a station cut at 595 feet. The water flow was 85 gpm. The station and skip pocket were completed in Aug. and 50 feet of drift had been driven. Homestake took over the shaft from Centennial on Aug. 11. In Oct. 1957 drifts had been run 150 feet each way from the shaft and one raise had been driven up to low grade mineralization. Water flow had increased to 150 gpm. The sandstone strata was very soft and had to be timbered. By Feb. 1958 4000 feet of workings had been completed and water flow had increased to 425 gpm. Development at this point was quite disappointing. Several raises to ore had only found barren rock. In April 1958 it was evident that the ore reserve estimate was too high. The first ore was shipped in Dec. 1957.

In April 1959 there were 27 men on the payroll and production reached 200 tons per day. At the end of 1959 development was started to trends south of the shaft. In March or April 1961 a lease on a block of ground in Sec. 29, 14-9 was obtained from Kermac. The lease was directly north of the shaft and preparations were being made to drive into it in April. In Nov. 1961 65% of the work was being done in Sec. 29. The Sec. 29 ore proved to be larger and better grade than the operator expected. In June 1962 a 32 inch cased ventilation hole was drilled in Sec. 29 to improve ventilation. By Nov. 1962 only one stope with two men working was operating in Sec. 32 with the rest of the crew in Sec. 29.

Kermac controlled Sec. 29 and the agreement with Homestake-Sapin was for a maximum of 25,000 tons of ore per quarter. In Feb. 1964 a drift was started from a point east of the shaft to run NE and north to cross and develop the east end of the ore trends in the Sec. 29 lease. The drift apparently crossed east of the east end of the ore trends because very little ore was found from the drift.

The grade and tonnage of ore mined in Sec. 29 lease exceeded the estimate arrived at from surface drill hole data. The Sec. 32 orebody was originally thought to be a large blanket deposit but mine development proved it to be a series of narrow trends. In June 1965 15 sets in the shaft had to be replaced where the shaft cuts the Brushy Basin shale. The section was then concreted to support timbers.

The lease in Sec. 29 ended in Nov. 1966 and all the crew was shifted to Sec. 32. In Jan. 1968 the lease in Sec. 29 was renewed. The original contract restricted the contractor to the lower horizon of ore in the westwater but the new contract made no such restriction and Homestake Partners mined some of the upper ore they were not permitted to mine under the old agreement.

Production to 1-1-70 is as follows:

Sec. 29 via 32	381,700 tons of .26%
Sec. 32, 14-9	420,000 tons of .20%.

1970 Grants Mineral Belt Report, pp. 78-80.

e. Section 12: The Section 12 mine is located in Section 12, T14N/R10W, New Mexico. Production occurred at the mine during the period from 1961-1980. The 1970 Grants Mineral Belt Report provides:

Sec. 12 was controlled by Stella Dysart. Columex Co. started drilling in July 1955 and hit some mineralization. Anderson Bros. were drilling on Sec. 12 in Jan. 1956 and by May had outlined an orebody and leased it to Rio de Oro to be mined through Dysart II shaft on Sec. 11. After Dysart I closed See Tee took over the shaft and proceeded to mine the rest of the ore in the rest of the SW/4 of Sec. 12. Production started on Aug. 13, 1962 and continued until May 24, 1963.

The ore strata dipped slightly to the east and the ore was expected to dip below the water table about 2500 feet east of the west section line. The ore was low grade, .14% to .16%, but the workings stood well and the ore was quite uniform so mining costs could be kept down. The water table was reached in Feb. 1963 and retreat mining started in March. The last of the equipment was hoisted on June 17, 1963.

See Tee mined 63,132 tons of .126% ore from Sec. 12 bringing the total production for Sec. 12 to 174,100 tons of .15% ore.

1970 Grants Mineral Belt Report, p. 61. *See also* 1991 BOM Uranium Mines Report, Table 2 (providing that Anderson Development Company had a period of production at the Section 12

mine in 1961, and that Stella Dysart and Febco Mines, Inc. had a period of production at the mine in 1962-1963.)

At this time, UNC has no knowledge about its involvement in any operations or activities at the Section 12 mine. The only reference to UNC involvement located thus far is in the 1991 BOM Uranium Mines Report, which provides "1980-United Nuclear" under the column "periods of production/shipper" for the Section 12 mine. *Id.*, Table 2. However, we have not been able to corroborate this information with any other source, and other information is inconsistent with UNC activities at the mine in 1980. For example, the 1991 Bureau of Mine Report states that Cobb's period of production was from 1978-1982, which would overlap UNC's alleged period of production. *Id.* We will continue to review documents and investigate this question with respect to the Section 12 mine during the extension period UNC has requested for responding to the Request.

f. Dysart No. 2: The Dysart No. 2 Mine is located in the SE/4 of Section 11, T14N/R10W, in McKinley County. 1972 UNC Report, p. 63. Production only appears to have occurred at the mine from 1959-1962. From 1959-1961, Rio de Oro operated the mine. In 1959, Midcontinent Exploration Co. had some involvement, as did Homestake-Sapin in 1961-1962. As of 1972, the United Nuclear-Homestake partners held approximately 130 acres of private land, under many leases. Production from the mine was subject to an unspecified royalty payment. 1972 UNC Report, p. 63. The 1970 Grants Mineral Belts Report states:

The property is the SE/4 of Sec. 11 but consists of 381 tracts ranging in size from 1/8 acre to one acre. The owners of the lots receive a share of the 17½% royalty.

Mid-Continent had the original control but sold 70% to Rio de Oro and 30% to Phillips Pet. Co. The deposit was discovered by 143,000 feet of drilling in 263 holes. The ore was 480 feet deep and 6 feet thick, in dry ground. A 12-foot circular concrete shaft was collared in May 1959. The shaft and station pockets were completed in Oct. 1959 and lateral development work started soon after. The shaft is 550 feet deep and the only level is at 490 feet.

The Atlas Corp. experimented with an upgrader. The feed was .09% and concentrate .22% but the recovery was only 20% of the values. Rio de Oro requested a lease on the adjacent section 12 and drove a drift to the section line. When the lease was obtained Rio de Oro developed and mined an orebody about 1300 feet long in Sec. 12.

Mining was in the retreat phase in Dec. 1961 with about 3 to 5 months production left. The last ore was hoisted on April 11, 1962. The shaft was to be turned over to See Tee Mining Co. to mine the ore left in the SW/4 of Sec. 12. Production from Sec. 12 by Rio de Oro started in Oct. 1960 and after mining 111,000 tons of .16% ore they closed the Sec. 12 workings at the end of 1961.

Total production from the SE/4 of Sec. 11 was 237,600 tons of .19% ore.

1970 Grants Mineral Belt Report, pp. 59-60.

g. Mary No. 1: The Request states that "Dysart No. 3" is a known alias of the Mary 1 Mine. The Dysart No. 3 Mines is located in the NW/4 of Section 11, T14N/R10W in McKinley County. 1970 Grants Mineral Belt Report, p. 55. The property consists of 160 acres of private land. The 1970 Grants Mineral Belts Reports states:

Santa Fe Railroad owned the original land and mineral patent and later sold it to F. Sarracino who in turn sold 4/5 to Stella Dysart and 1/5 to Sam Dazzo. The property was leased to Entrada Corp. who made a contract with Boyles Bros. to develop and mine the deposit.

The deposit was discovered by drilling 230 holes for a total footage of 120,000. Drilling started in the fall of 1955 and a shaft was collared in Feb. 1959. The shaft was bottomed at 630 feet in June 1959 and stations cut at 460 and 560 feet depth. The first production was in July 1959. Boyles Bros. closed the mine after mining 136,400 tons of .17% ore.

Entrada took over operations and resumed production in Nov. 1961 at a much lower production rate and a lower ore grade. . . Drilling was stopped on May 6, 1962 after drilling 100 holes totaling 45,000 feet with very mediocre results. . . . In the last half of 1963 production was about 5,000 tons per month and the grade about .10% which was very likely a losing proposition. Entrada ceased operations on Dec. 20 and See Tee Mining Co. (Dysart) bought the equipment and took over the mine. See Tee had a special market for low-grade ore at the Homestake-Sapin mill.

Homestake-Sapin took over the operation on June 12, 1964 and started setting up for 12,000 to 13,000 tons per month operation. They had asked to have the remaining allocated pounds substitutes to the other Homestake mines but the AEC ruled that the profitability of the mine be demonstrated. Production for the first seven months of 1965 was 84,400 tons of .085% ore or about 12,000 tons per month. Figured on an incremental basis this volume and grade of ore was judged to be profitable and the substitution was granted. The mine was shut down Aug. 4, 1965.

Total production to 1-1-70 was 357,300 tons of .11% ore.

1970 Grants Mineral Belt Report, pp. 55-56.

3. *Where not provided as a response to Question 2, above, provide information about each mine, including but not limited to the following:*

- a. *Property boundaries, including a written legal description;*
- b. *A map identifying the property location;*
- c. *Maps of the mine plans and boring hole locations;*
- d. *Location and description of surface structures (e.g., protore, waste pile, retention ponds, buildings, housing, etc.);*
- e. *Location and description of any groundwater wells or sources of surface water used in mine operations;*
- f. *Maps, drawings, aerial photographs of the property.*

Response: UNC has identified the following maps/documents which are responsive or potentially responsive to this request. All of these maps are or contain confidential business information. Many of these maps/documents are irregular sizes, large, old, frail, faded or otherwise difficult to copy. These maps are available for review at the office of Davis Graham & Stubbs LLP, 1550 17th Street, Suite 500, Denver, Colorado 80202-1500. Please contact Robert W. Lawrence at 303.892.7409 if you would like to arrange dates to review these maps/documents.

Box Number	Mine	Date	Creator	Type of Map	Area or Notes	Job # or Map #	Legal Description
500061027 / 1926	Ann Lee	-	Phillips Petroleum	Drill Hole Map	ALL MAPS AND DOCUMENTS ON THIS TABLE ARE CONFIDENTIAL BUSINESS INFORMATION	Job 4053	§28, T14N, R9W, McKinley County, NM
500061027 / 1926	-	-	-	Drill Hole Map	-	Job 200760	§2, T14N, R11W, McKinley County, NM
500061027 / 1926	Ann Lee	-	UNC	Shaft Map	-	Map 5	§28, T14N, R9W, McKinley County, NM
500061027 / 1926	-	9/1/1962	-	-	-	-	Southeast Corner of §29 and Southwest Corner of §28, T14N, R9W

Box Number	Mine	Date	Creator	Type of Map	Area or Notes	Job # or Map #	Legal Description
500061027 / 1926	Sandstone	1964-1969	UNC	Assessment Map / Bottom Hole Location	-	-	§34, T14N, R9W, McKinley County, NM
500061027 / 1926	-	-	-	Map of Blocks 1-7	-	Job 200760	§1-14-11, §2-14-11, §12-14-11
500061027 / 1926		06 & 07 1969		Monthly Advance		Map 200761	§17, T14N, R9W
500061027 / 1926	Ann Lee	5/25/1956	Phillips Petroleum	Mineral Claims and Drill Holes	-	-	§28, T14N, R9W
500061027 / 1926	Sandstone	7/27/1962		Sandstone Mine Structure Contours	-	Map 200764	-
500061027 / 1926	Ann Lee	-	UNC	Bottom Hole Locations	-	Map 200763	§28, T14N, R9W
500061027 / 1926	-	12/27/1956	Phillips Petroleum	Isopatch Map of Movable Ore / Drillholes	-	-	§28, T14N, R9W, McKinley County, NM
500061027 / 1926	Ann Lee	-	-	Diagrammatic Sketch of 9W Zone	-	Map 200762	-
500061027 / 1926	Ann Lee	4/3/1959	Phillips Petroleum	Diagrammatic Sketch of Geological Sections of 5W Zone	-	-	-
500061027 / 1926	-	9/16/1959	Phillips Petroleum	Estimated Bottom Hole Location	-	Map 200764-6	§34, T14N, R9W
500061027 / 1926	-	-	Phillips Petroleum	Estimated Bottom Hole Location, Isopatch and Ore Cutoff	-	Map 200764-5	§34, T14N, R9W
500061027 / 1926	-	-	Phillips Petroleum	Structure Contour on Base Westwater Member	-	Map 200764-2	§34, T14N, R9W

Box Number	Mine	Date	Creator	Type of Map	Area or Notes	Job # or Map #	Legal Description
500061027 / 1926	-	9/16/1959	Phillips Petroleum	Estimated Bottom Hole Location	-	Map 200764-3	§34, T14N, R9W
500061027 / 1926	-	-	Phillips Petroleum	Estimated Bottom Hole Location, Isopach and Ore Cutoff	-	Map 200764-7	§34, T14N, R9W
500061027 / 1926	-	-	Phillips Petroleum	-	-	-	-
500061027 / 1926	-	-	-	Spec Maps for Equipment: Standards, Skip, and Cage; Assembly for 12'0" Dumpshaft Assembly Parts	A series of spec drawings for equipment	-	-
500061027 / 1926	-	-	-	Mine Location and Contour Map	-	Map 200762 (two of these)	§§25-28, 33-36
500061027 / 1926	Ann Lee	-	Phillips Petroleum	Drill Hole Data 6 Detail Map	-	Map 200762	-
500061027 / 1926	-	-	-	Spec Maps for Equipment	A series of spec drawings for equipment	-	-
500061027 / 1926	-	-	Phillips Petroleum	No information, but it looks like a Borehole Map	-	Map 200764-2	§34, T14N, R9W, McKinley County, NM
500061027 / 1926	Ann Lee	-	-	Ore Grade	Westside Sheet #1	-	-
500061027 / 1926	-	-	-	Non descript	-	-	-
500061027 / 1926	Ann Lee	-	-	Ore Grade of Sheet 1A and 1B	-	-	-

Box Number	Mine	Date	Creator	Type of Map	Area or Notes	Job # or Map #	Legal Description
500061027 / 1926	Ann Lee	-	Phillips Petroleum	Drill Hole Data	-	(No numbers, but a series of 4 maps show this; there are several copies)	§28, T13N, R9W
500061027 / 1926	Ann Lee	-	-	Ore Grade	Eastside Sheet #1	(Several copies)	-
500061027 / 1926	-	-	-	-	-	-	-
500061027 / 1926	-	-	-	Mine Map of C Zone and A Zone	-	-	-
500061027 / 1926	-	10/21/1961	Phillips Petroleum	Plan of Ore Bodies	-	-	§27, T14N, R9W
500061027 / 1926	Ann Lee	4/11/1959	Phillips Petroleum	10NW Rooms 33-35	-	Map 200761-13	-
500061027 / 1926	Ann Lee	4/11/1959	Phillips Petroleum	10NW Rooms 36-38	-	Map 200761-14	-
500061027 / 1926	Ann Lee	4/13/1959	Phillips Petroleum	10NW Rooms 32-34	-	Map 200761-15	-
500061027 / 1926	Ann Lee	-	Phillips Petroleum	10NW Rooms 39-41	-	Map 200761-16	-
500061027 / 1926	Ann Lee	4/9/1959	Phillips Petroleum	10NW Rooms 1, 2R, and 2	-	Map 200761-?	-
500061027 / 1926	Ann Lee	4/9/1959	Phillips Petroleum	10NW Rooms 3-5	-	Map 200761-?	-
500061027 / 1926	Ann Lee	4/9/1959	Phillips Petroleum	10NW Rooms 6-8	-	Map 200761-4	-
500061027 / 1926	Ann Lee	4/9/1959	Phillips Petroleum	10NW Rooms 9-11	-	Map 200761-5	-
500061027 / 1926	Ann Lee	4/9/1959	Phillips Petroleum	10NW Rooms 12-14	-	Map 200761-6	-
500061027	Ann Lee	4/10/1959	Phillips	10NW Rooms	-	Map	-

Box Number	Mine	Date	Creator	Type of Map	Area or Notes	Job # or Map #	Legal Description
/ 1926			Petroleum	15-17		200761-7	
500061027 / 1926	Ann Lee	4/10/1959	Phillips Petroleum	10NW Rooms 18-20	-	Map 200761-8	-
500061027 / 1926	Ann Lee	4/10/1959	Phillips Petroleum	10NW Rooms 21-23	-	Map 200761-9	-
500061027 / 1926	Ann Lee	4/10/1959	Phillips Petroleum	10NW Rooms 24-26	-	Map 200761-10	-
500061027 / 1926	Ann Lee	4/10/1959	Phillips Petroleum	10NW Rooms 27-29	-	Map 200761-11	-
500061027 / 1926	Ann Lee	-	Phillips Petroleum	10NW Rooms 30-32	-	Map 200761-12	-
500061027 / 1926	Ann Lee	9/16/1961-2/28/62	-	Proposed Development	Attachment D: Proposed Development, Ann Lee, Sublevel Blocks F, G, H, D-3, D-4, D-7, 5-1, 5-2	Map 200761	§28
500061027 / 1926	Ann Lee	5/12/1962	Phillips Petroleum	Bottom Hole Locations	-	Map 200763-1	§28, T14N, R9W, McKinley County, NM
500061027 / 1926	-	-	Phillips Petroleum	Isometric Projections of 6SE of Rooms 54-57	-	-	-
500061027 / 1926	-	-	Phillips Petroleum	Isometric Projections of 3S of Rooms 59-64	-	-	-
500060569 / 1816	-	-	Kermac Nuclear Fuels Corp	-	-	-	§§28-29
500060569 / 1816	-	4/12/1966	Kermac Nuclear Fuels Corp	-	-	-	§§28-29, T14N, R9W

Box Number	Mine	Date	Creator	Type of Map	Area or Notes	Job # or Map #	Legal Description
500060569 / 1816	-	10/25/1967	-	Stope Level	-	-	§27, T14N, R9W
500060569 / 1816	-	7/1/1968	-	Stope Level	East of Shaft	-	§27, T14N, R9W
500060569 / 1816	-	-	UNC	Planned Excavation in Zones B & D for January, March, April, August, September, and November	-	-	-
500060569 / 1816	-	-	UNC	Planned Excavation in Zones B, C, & D for March, April, September, and November	-	-	-
500060569 / 1816	-	-	UNC	Planned Excavation in Zone B for January, March, April, August, September, and November	-	-	-
500060569 / 1816	-	-	UNC	3 Maps indicating Planned Excavation in Zone A for January, March, April, August, September, and November	-	-	-
500060569 / 1816	Sandstone	-	-	Profile of M & E Service Drift	-	-	-
500060569 / 1816	Sandstone	4/2/1960	-	Proposed Weekly Advance Map for 4/4/60	-	-	-

Box Number	Mine	Date	Creator	Type of Map	Area or Notes	Job # or Map #	Legal Description
500060569 / 1816	-	-	-	Equipment schematics, Engineering report titled "Specifications for Construction of Explosive and Cap Storage Buildings"	-	-	-
500060567 / 1814	Ann Lee	6/9/61, 7/5/61, 8/7/6	Rio Grande Steel Products Co.	3 schematics and building material	Col's and Beams	-	-
500060567 / 1814	Ann Lee	-	-	Equipment and Building schematics for transformer dolly, pumps, sheds, and other electrical equipment	-	Flipchart	-
500060567 / 1814	-	1960 & 1961	Phillips Petroleum	Preliminary sketch of east side of Ann Lee Mine	-	Flipchart	-
500060567 / 1814	-	-	-	Arial photograph	NM-171-NW 1/4 #3662	-	-
500060567 / 1814	-	-	-	Arial photograph	NM -171-SE 1/4 #3662	-	-
500060567 / 1814	-	-	-	Arial photograph	NM-171-NE1/4 #3662	-	-
500060567 / 1814	-	-	-	Arial photograph	NM-171-SW1/4 #3662	-	-
500048539 / 2232	§27 Mine	5/17/1967	UNC	-		200746	§27, T14N, R9W
500048539 / 2232	-	-	-	Contours and Oreholes	2 Map Set	-	-
500048539 / 2232	-	-	-	Plan of M-6 Ore Body	-	200745	-

Box Number	Mine	Date	Creator	Type of Map	Area or Notes	Job # or Map #	Legal Description
500048539 / 2232	-	-	Phillips Petroleum	SE Area of Underground Mine	Rooms 21-27	-	-
500048539 / 2232	Ann Lee	-	Phillips Petroleum	Fringe Drift	Rooms 1-5	-	-
500048539 / 2232	-	-	Phillips Petroleum	East Side	Rooms 16-19	-	-
500048539 / 2232	-	-	Phillips Petroleum	East Side	Rooms 11-15	-	-
500048539 / 2232	-	5/5/1959	Phillips Petroleum	Upper Ore Zone NE	Rooms 11-19	-	-
500048539 / 2232	Ann Lee	3/6/1959	Phillips Petroleum	SE Area	Rooms 13-15	-	-
500048539 / 2232	Ann Lee	3/6/1959	Phillips Petroleum	SE Area	Rooms 16-18	-	-
500048539 / 2232	Ann Lee	3/6/1959	Phillips Petroleum	SE Area	Rooms 19-21	-	-
500048539 / 2232	Ann Lee	3/6/1959	Phillips Petroleum	SE Area	Rooms 22-24	-	-
500048539 / 2232	Ann Lee	3/6/1959	Phillips Petroleum	SE Area	Rooms 10-12	-	-
500048539 / 2232	-	-	-	-	Rooms 29-36; Map indicates the location of Second Floor Posts and First Floor Posts for Rooms 32 & 33	-	-
500048539 / 2232	-	-	Phillips Petroleum	No. 6 SE	Rooms 26-32	-	-
500048539 / 2232	-	-	Phillips Petroleum	East Side	Rooms 19-24	-	-
500048539 / 2232	Ann Lee	3/6/1959	Phillips Petroleum	SE	-	-	-
500048539 / 2232	-	-	Phillips Petroleum	East Side	Rooms 25-30	-	-

Box Number	Mine	Date	Creator	Type of Map	Area or Notes	Job # or Map #	Legal Description
500048539 / 2232	-	-	Phillips Petroleum	8 SE & 7+40	Rooms 29-36	-	-
500048539 / 2232	-	-	Phillips Petroleum	East Side of 5-S-NE to Room 10	-	-	-
500048539 / 2232	-	-	Phillips Petroleum	East Side	Rooms 31-36	-	-
500048539 / 2232	-	-	-	Underground Cross Section in the W.P Ore Body	East-West Sections Looking North	-	-
500048551 / 2240	-	-	-	Drill Hole and Area Table Showing Total Stripping, Internal Waste, Ore Tons / Average GD lbs, Lbs Read by 10%, Mining Costs, Cost Per Pound	Series of 22	-	-
500048551 / 2240	-	-	-	Drill Hole Transparencies Showing Elevations 5895-5920	3 Parts	-	-
500048551 / 2240	Ann Lee	-	Teton Exploration Drilling Co Inc	Borehole Chart	Mapset of 2: SW Quarter and SE Quarter of §28	-	§28, T14N, R10W
444401267 / 517	Sandstone	4/27/1979	UNC	Borehole and Mine	-	-	§34, T14N, R9W
444401267 / 517	Sandstone	December of 1977	UNC	Borehole and Mine	2 Copies	-	§34, T14N, R9W
444401267 / 517	Sandstone	10/8/1976	UNC	Borehole and Mine	-	-	§34, T14N, R9W
444401267 / 517	Sandstone	1/31/1977	UNC	Borehole and Mine	2 Copies	-	§34, T14N, R9W
444401267 / 517	Sandstone	April of 1977	UNC	Borehole and Mine	2 Copies	-	§34, T14N, R9W
444401267	Sandstone	5/6/1979	UNC	Borehole and	-	-	§34, T14N,

Box Number	Mine	Date	Creator	Type of Map	Area or Notes	Job # or Map #	Legal Description
/ 517				Mine			R9W
444401267 / 517	Sandstone	10/8/1976	UNC	Borehole and Mine	2 Copies	-	§34, T14N, R9W
444401267 / 517	Sandstone	1/1/1978	UNC	Borehole and Mine	2 Copies	-	§34, T14N, R9W
444401267 / 517	Sandstone	February of 1977	UNC	Borehole and Mine	4 Copies	-	§34, T14N, R9W
444401267 / 517	Sandstone	5/6/1979	UNC	Borehole and Mine	2 Copies	-	§34, T14N, R9W
444401267 / 517	Sandstone	10/23/1979	UNC	Borehole and Mine	-	-	§34, T14N, R9W
444401267 / 517	Sandstone	1/31/1977	UNC	Borehole and Mine	2 Copies	-	§34, T14N, R9W
444401267 / 517	Sandstone	March of 1977	UNC	Borehole and Mine	-	-	§34, T14N, R9W
444401267 / 517	Sandstone	10/23/1979	UNC	Borehole and Mine	2 Copies	-	§34, T14N, R9W
444401267 / 517	Sandstone	7/28/1976	UNC	Borehole and Mine	-	-	§34, T14N, R9W
500060585 / 1833	Sandstone	-	-	Schematics for machinery used in Sandstone Mine: Pumps, fans, airthrusters,	-	-	-
500060585 / 1833	Ann Lee	8/15/1961	Phillips Petroleum	Schematics for cable routing and wiring for many sump pumps	-	AFE MM-9521	-
500060585 / 1833	Ann Lee	11/19/1957	Phillips Petroleum	Electrical Plot Plan	-	AFE SM-9506	-
500060585 / 1833	Ann Lee	11/21/1957	Phillips Petroleum	Underground Electrical Plan	-	AFE SM-9506	-
500060585 / 1833	Ann Lee	11/21/1957	Phillips Petroleum	Electrical Layout Main Sump Area	-	AFE SM-9506	-
500060585 / 1833	Ann Lee	12/12/1957	Phillips Petroleum	Electrical Layout Main Shaft Area	-	AFE SM-9506	-

Box Number	Mine	Date	Creator	Type of Map	Area or Notes	Job # or Map #	Legal Description
500060585 / 1833	Ann Lee	12/17/1957	Phillips Petroleum	Cable Schedule	-	AFE SM-9506	-
500060585 / 1833	Ann Lee	3/6/1958	Phillips Petroleum	Electrical Layout and Details for North Sump Area	-	AFE SM-9506	-
500060585 / 1833	Ann Lee	12/31/1958	Phillips Petroleum	Electrical Layout of Warehouse	-	AFE SM-9506	-
500060585 / 1833	Ann Lee	4/18/1961	Phillips Petroleum	Electrical Layout Skip Hoist Area	-	AFE MM-9521	-
500060585 / 1833	Ann Lee	5/3/1961	Phillips Petroleum	Miscellaneous Electrical Details Inclined Skip Hoist	-	AFE MM-9521	-
500060585 / 1833	Ann Lee	9/5/1961	Phillips Petroleum	Signal Systems Inclined Skip Hoist	-	AFE MM-9521	-
500060585 / 1833	Ann Lee	7/26/1961	Phillips Petroleum	Underground Electrical Plan: Elevation 6271' Sublevel	-	AFE MM-9521	-
500060585 / 1833	Ann Lee	7/26/1961	Phillips Petroleum	Electrical Layout Battery Charging Station Sublevel Mining	-	AFE MM-9521	-
500060585 / 1833	Ann Lee	7/28/1961	Phillips Petroleum	Electrical Layout Sublevel Pump Sump	-	AFE MM-9521	-
500060585 / 1833	Ann Lee	7/6/1961	Phillips Petroleum	SWRK #5 Details Sublevel	-	AFE MM-9521	-
500060585 / 1833	Ann Lee	7/20/1961	Phillips Petroleum	Wiring Diagram of SWRK #5 Sublevel	-	AFE MM-9521	-

Box Number	Mine	Date	Creator	Type of Map	Area or Notes	Job # or Map #	Legal Description
500060585 / 1833	Ann Lee	8/7/1961	Phillips Petroleum	Dump Control Alarm Schematics Diagrams	-	AFE MM-9521	-
500060585 / 1833	Ann Lee	8/2/1961	Phillips Petroleum	Pump Control and Alarm Control Diagram	-	AFE MM-9521	-
500060585 / 1833	Ann Lee	8/2/1961	Phillips Petroleum	Electrical Layout Main Shaft Sump Area	-	AFE MM-9521	-
500060585 / 1833	Sandstone	-	-	Proposed Development Map of the East A-Zone Ore Structure Contours	-	-	-
500060585 / 1833	Ann Lee	5/5/1961	Phillips Petroleum	Profile of 0+00S	-	-	-
500060585 / 1833	Ann Lee	5/8/1961	Phillips Petroleum	Detail of 0+00E: Details Susher Trench, Pump Station, and Dam	-	-	-
500060585 / 1833	Sandstone	-	Phillips Petroleum	Bottom Hole Location Map	-	-	§34, T14N, R9W
500060601 / 1849	Sandstone and Ann Lee	-	Phillips Petroleum	Preliminary Geologic Map of Ambrosia Lake and San Mateo Areas	-	-	T14 and T13, R: 8-11W
500060601 / 1849	Ann Lee	-	-	Underground Mine and Boreholes	-	-	§28
500060601 / 1849	Ann Lee	August 7, 1957-November 11, 1957	Phillips Petroleum	Series of 11 Drawings and Schematics	-	AFP SM-9506	-
500060601 / 1849	Ann Lee	December 1960-February 1961	Phillips Petroleum	Series of 19 Schematics and Drawings	-	AFP MM-9521	-

Box Number	Mine	Date	Creator	Type of Map	Area or Notes	Job # or Map #	Legal Description
500060601 / 1849	None noted specifically	January of 1956	Western State Map Co.	Geologic and Property Map of Ambrosia Lake Mining Area	-	-	-
444401348 / 598	Sandstone	9/19/1980-11/2/1980	UNC	Work Advance	Mapset of 5 Maps	EM-3	§34, T14N, R9W
444401348 / 598	Sandstone	7/27/1980-9/19/1980	UNC	Work Advance	Mapset of 5 Maps	EM-3	§34, T14N, R9W
444401348 / 598	Sandstone	6/29/1980-7/27/1980	UNC	Work Advance	Mapset of 5 Maps	EM-3	§34, T14N, R9W
444401348 / 598	Sandstone	6/1/1980-6/29/1980	UNC	Work Advance	Mapset of 5 Maps	EM-3	§34, T14N, R9W
444401348 / 598	Sandstone	5/5/1980-6/1/80	UNC	Work Advance	Mapset of 5 Maps	EM-3	§34, T14N, R9W
444401348 / 598	Sandstone	3/23/1980-4/5/1980	UNC	Work Advance	Mapset of 4 Maps	EM-3	§34, T14N, R9W
444401348 / 598	Sandstone	2/24/1980-3/23/1980	UNC	Work Advance	Mapset of 4 Maps	EM-3	§34, T14N, R9W
444401348 / 598	Sandstone	1/27/1980-2/24/1980	UNC	Work Advance	Mapset of 4 Maps	EM-3	§34, T14N, R9W
444401348 / 598	Sandstone	1/1/1980-1/27/1980	UNC	Work Advance	Mapset of 5 Maps	EM-3	§34, T14N, R9W
444401348 / 598	Sandstone	11/4/1979-12/2/1979	UNC	Work Advance	Mapset of 4 Maps	EM-3	§34, T14N, R9W
444401348 / 598	Sandstone	9/23/1979-11/4/1979	UNC	Work Advance	Mapset of 4 Maps	EM-3	§34, T14N, R9W
444401348 / 598	Sandstone	8/27/1979-9/23/1979	UNC	Work Advance	Mapset of 5 Maps	EM-3	§34, T14N, R9W
444401348 / 598	Sandstone	7/29/1979-8/26/1979	UNC	Work Advance	Mapset of 5 Maps	EM-3	§34, T14N, R9W
444401348 / 598	Sandstone	7/1/1979-7/29/1979	UNC	Work Advance	Mapset of 5 Maps	EM-3	§34, T14N, R9W
444401348 / 598	Sandstone	5/20/1979-7/1/1979	UNC	Work Advance	Mapset of 5 Maps	EM-3	§34, T14N, R9W
444401348 / 598	Sandstone	3/25/1979-4/22/1979	UNC	Work Advance	Mapset of 5 Maps	EM-3	§34, T14N, R9W
444401348 / 598	Sandstone	4/22/1979-5/20/1979	UNC	Work Advance	Mapset of 5 Maps	EM-3	§34, T14N, R9W

Box Number	Mine	Date	Creator	Type of Map	Area or Notes	Job # or Map #	Legal Description
444401348 / 598	-	-	-	State of New Mexico, McKinley County, and San Lucas Dam Quadrangle	5 USGS Maps	-	-
444401348 / 598	Ann Lee	4/11/1959-1/2/1962	Phillips Petroleum	Engineering and Structural Details	3 Drawings	EC-2	-
444401348 / 598	Sandstone	1960-1962	Phillips Petroleum	Schematics	4 Drawings	EC-3	-
444401348 / 598	Ann Lee	6/8/1961	Phillips Petroleum	Skip Shoe Diagram	-	EA-2	-
444401348 / 598	Ann Lee	4/8/1961	Phillips Petroleum	Retreat Plans for Rooms 28-38 (2 Maps); Dorr Sand Filter Installation (2 Maps)	Mapset of 4 Maps	EM-2	-
444401348 / 598	Ann Lee	1959-1962	Phillips Petroleum	Schematics	35 Drawings	ED-2	-
444401348 / 598	Sandstone	1959-1963	Phillips Petroleum	Schematics	31 Drawings	ED-3	-
500048597 / 2286	-	-	-	Geologic Formation Map	McKinley and Valencia Counties (microfiche)	-	-
500048597 / 2286	-	-	-	Borehole Location Map	McKinley and Valencia Counties (2 Copies)	-	-
500048597 / 2286	-	5/6/1957	Phillips Petroleum	Preliminary Geologic Map of Ambrosia Lake and San Mateo Basin	-	-	-
500048597 / 2286	Sandstone	1966-1970	UNC	Monthly Advance Map: Zones A - D	Mapset of 4 Maps	-	§34, T14N, R9W

Box Number	Mine	Date	Creator	Title of Map, Diagram, or Schematic	Area or Notes	Map, Drawing, or Job #	Legal Description
500048597 /	Sandstone	2/22/77-	UNC	Advance Map	-	EM-3	§34, T14N,

2286		3/27/77					R9W
500048597 / 2286	Sandstone	10/25/76-11/21/76	UNC	Advance Map	-	EM-3	\$34, T14N, R9W
500048597 / 2286	Sandstone	10/24/76	UNC	Borehole Shaft Map	-	-	-
500060598 / 1846	John Bill & Ann Lee	-	UNC	Project Status Chart October - January (no year specified)	2 in a Series	-	-
500060598 / 1846	Ann Lee	12/21/1956	Phillips Petroleum	Schematic Location Map and Profiles Misc Details of the Main Shaft	-	UD-2; AFE SM-9502; Sh. No. M-12-1	-
500060598 / 1846	Ann Lee	12/21/1956	Phillips Petroleum	Arrangement for Details for Steel Hoisting Shaft Lining of Main Shaft	-	UD-2; AFE SM-9502; Sh. No. M-13-1	-
500060598 / 1846	Ann Lee	6/5/1957	Phillips Petroleum	Elevations of Main Mine Shaft	-	UD-2; AFE SM-9502; Sh. No. M-16-4	-
500060598 / 1846	Ann Lee	10/16/1957	Phillips Petroleum	Mine Shaft Sections	-	UD-2; AFE SM-9502; Sh. No. M-17-A-0	-
500060598 / 1846	Ann Lee	8/14/1957	Phillips Petroleum	Plan at Elevation 6340'	-	UD-2; AFE SM-9502; Sh. No. M-18A-1	-
500060598 / 1846	Ann Lee	10/11/1957	Phillips Petroleum	Plans at Shaft Sets Between 6372'6" - 6340'	-	UD-2; AFE SM-9502; Sh. No. M-19A-1	-
500060598 / 1846	Ann Lee	10/15/1957	Phillips Petroleum	Plans at Shaft Sets Between 6334'2" - 6265'6"	-	UD-2; AFE SM-9502; Sh. No. M-20-1	-
500060598 / 1846	Ann Lee	11/8/1957	Phillips Petroleum	Excavation and Shaft Pillar	-	UD-2; AFE SM-9508; Sh. No. M-21-1	-
500060598 / 1846	Ann Lee	3/6/1958	Phillips Petroleum	Excavation at North Sump	-	UD-2; AFE SM-9502; Sh. No. M-22-0	-
500060598 / 1846	Ann Lee	6/3/1957	Phillips Petroleum	Sheave and Hoist Layout for Main Shaft	-	UD-2; AFE SM-9506; Sh. No. M-24-1	-
500060598 / 1846	Ann Lee	6/7/1957	Phillips Petroleum	Key Plan of Ann Lee Uranium Mine	-	UD-2; AFE SM-9502; Sh. No. M-25-3	-
500060598 / 1846	Ann Lee	6/6/1957	Phillips Petroleum	General Subsurface Layout Between 538,900E - 539,800E	-	UD-2; AFE SM-9502; Sh. No. M-28-1	-
500060598 / 1846	Ann Lee	9/9/1957	Phillips Petroleum	Block Mining Layout First and	-	UD-2; AFE SM-9508;	-

				Second Stage Development		Sh. No. M-28A-3	
500060598 / 1846	Ann Lee	9/10/1957	Phillips Petroleum	Block Mining Layout West of Shaft	-	UD-2; AFE SM-9508; Sh. No. M-34-1	-
500060598 / 1846	Ann Lee	9/13/1957	Phillips Petroleum	Block Mining Layout East of Shaft	-	UD-2; AFE SM-9508; Sh. No. M-35-1	-
500060598 / 1846	Ann Lee	9/6/1957	Phillips Petroleum	Plan of the Skip Unloading Hopper, Belt Conveyor, Walkway and Storage Bin	-	UD-2; AFE SM-9506; Sh. No. M-39-1	-
500060598 / 1846	Ann Lee	9/5/1957	Phillips Petroleum	Elevation "A-A" Skip Unloading Hopper, Belt Conveyor, Walkway and Storage Bin	-	UD-2; AFE SM-9506; Sh. No. M-40-1	-
500060598 / 1846	Ann Lee	9/9/1957	Phillips Petroleum	Elevation "B-B" & "C-C" Skip Unloading, Belt Conveyor, Walkway and Storage Bin	-	UD-2; AFE SM-9506; Sh. No. M-41-1	-
500060598 / 1846	Ann Lee	9/13/1957	Phillips Petroleum	Layout of Waste and Ore Stockpiles and Slushier	-	UD-2; AFE SM-9506; Sh. No. M-42-3	-
500060598 / 1846	Ann Lee	9/17/1957	Phillips Petroleum	Layout of Slushier at Skip Loading Pocket	-	UD-2; AFE SM-MD; Sh. No. M-43-0	-
500060598 / 1846	Ann Lee	1/2/1958	Phillips Petroleum	Layout of Slushier at Skip Loading Pocket	-	UD-2; AFE SM-9506; Sh. No. M-43A-1	-
500060598 / 1846	Ann Lee	9/18/1957	Phillips Petroleum	Plan, Profiles and Details Sewage and Disposal System	-	UD-2; AFE SM-9506; Sh. No. M-44-4	-
500060598 / 1846	Ann Lee	10/8/1957	Phillips Petroleum	Foundation for 20x40 Temporary Generator Unit Building	-	UD-2; AFE SM-9506; Sh. No. M-45-1	-
500060598 / 1846	Ann Lee	11/25/1957	Phillips Petroleum	Grading Plan Map	-	UD-2; AFE SM-9506; Sh. No. M-46-1	-
500060598 / 1846	Ann Lee	11/18/1957	Phillips Petroleum	Floor Covering at Elevation 6340', Baffle and Weir Details, Main Sump	-	UD-2; AFE SM-9506; Sh. No. M-47-0	-
500060598 / 1846	Ann Lee	11/25/1957	Phillips Petroleum	Steel and Timber Drift Sets Layout Shaft Pillar	-	UD-2; AFE SM-9508; Sh. No. M-48-0	-
500060598 / 1846	Ann Lee	11/27/1957	Phillips Petroleum	Skip Loader FDN	-	UD-2; AFE SM-9506;	-

						Sh. No. M-49-0	
500060598 / 1846	Ann Lee	12/13/1957	Phillips Petroleum	Equipment Layout-Hoist Area Shop and Hoist Building	-	UD-2; AFE SM-9506; Sh. No. M-50-2	-
500060598 / 1846	Ann Lee	2/27/1958	Phillips Petroleum	Details for Air vent and Escape Shafts	-	UD-2; AFE SM-9505; Sh. No. M-51-0	-
500060598 / 1846	Ann Lee	9/13/1958	Phillips Petroleum	Mine Water Measurement	-	UD-2; AFE SM-9506; Sh. No. M-52-0	-
500060598 / 1846	Ann Lee	3/26/1958	Phillips Petroleum	Plan and Elevations of Ore Handling Conveyors	-	UD-2; AFE SM-9506; Sh. No. M-53-5	-
500060598 / 1846	Ann Lee	4/2/1958	Phillips Petroleum	Skip Comp. Partition	-	UD-2; Sh. No. M-54-0	-
500060598 / 1846	Ann Lee	4/25/1958	Phillips Petroleum	Ore Storage Area	-	UD-2; AFE SM-9512; Sh. No. M-55-1	-
500060598 / 1846	Ann Lee	5/29/1958	Phillips Petroleum	Clay Suspension Mixer for North Sump	-	UD-2; RFE 60378; Sh. No. M-56-0	-
500060598 / 1846	Ann Lee	7/15/1958	Phillips Petroleum	Mine Water Desanding Unit	-	UD-2; RFE 60378; Sh. No. M-57-3	-
500060598 / 1846	Ann Lee	9/2/1958	Phillips Petroleum	Mine Slushier Scraper	-	UD-2; FFE 60378; Sh. No. M-59-0	-
500060598 / 1846	Ann Lee	4/24/1961	Phillips Petroleum	Incline Drift From Intersection at Elevation 6340' to Skip Unloading Pocket	-	UD-2; AFE MM-9521; Sh. No. M-61-1	-
500060598 / 1846	Ann Lee	5/3/1961	Phillips Petroleum	Incline Drift and Sublevel Haulage at Skip Loading Pocket	-	UD-2; AFE MM-9521; Sh. No. M-62-2	-
500060598 / 1846	Ann Lee	5/22/1961	Phillips Petroleum	Battery Charging Station Sublevel Mining	-	UD-2; AFE MM-9521; Sh. No. M-63-0	-
500060598 / 1846	Ann Lee	6/29/1961	Phillips Petroleum	Mine Dewatering Flow Sheet	-	UD-2; AFE MM-9521; Sh. No. M-64-1	-
500060595 / 1843	Sandstone	3/11/1976	UNC	10-year Plan August 1977 (7/31/77)	Map set of 4 maps (with copies)	20004-1	-
500060595 / 1843	Sandstone	-	UNC	Advance Between 6/19/77-7/31/77 and 10-year Plan (August 1977)	Map set of 4 maps	EM-3	§34, T14N, R9W

500048595 / 2284	Entire Ambrosia Lake Area	June of 1970	Teton Exploration and Drilling Co. Inc.	Ambrosia Lake Area (showing mining interests of the area)	Map 1 of 9 (other 8 not present)	-	-
500061466 / 1714	Ann Lee	5/25/1956	Phillips Petroleum	Location of Ann Lee Mineral Claims and Drill Holes	-	7-8-1-M	§ 28 T14N/R9W
500061466 / 1714	Ann Lee	3/18/1968	UNC	Bottom Hole Location	-	200760-2	§ 28 T14N/R9W
500061466 / 1714	Ann Lee	10/1/1979	UNC	Bottom Hole Location			§ 28 T14N/R9W
500061445 / 1693	Ann Lee	-	-	Shafts, Vent Holes, Tracks, and Drill Holes	-	-	§ 27
500061445 / 1693	Sandstone	7/21/1976	UNC	Schematic of Sheave Wheel Arrangement Head Frame of Sandstone Shaft #2	-	-	-
500061445 / 1693	Sandstone	-	UNC	Hoist Building Floor Plan of Sandstone Muck Shaft	-	-	-
500061445 / 1693	Sandstone	5/26/1976	UNC	Foundations for Back Legs of Head Frame Shaft #2	-	-	-
444400829 / 329	Ann Lee	8/31/1959	Phillips Petroleum	Advance Heading	-	-	§ 28 T14N/R9W
444400829 / 329	Ann Lee	2/1/1960	Phillips Petroleum	Advance Map Through 2/8/1960	-	-	-
444400829 / 329	Ann Lee	12/29/1958 -9/28/1959	Phillips Petroleum	Weekly Advance Maps of Ann Lee Mine	Series of 46 Maps Clipped Together	-	§ 28 T14N/R9W
444400829 / 329	Ann Lee	10/31/1960	Phillips Petroleum	Advance Heading	-	-	§ 28 T14N/R9W
444400829 / 329	Ann Lee	11/30/1960	Phillips Petroleum	Advance Heading	-	-	§ 28 T14N/R9W
444400829 / 329	Ann Lee	5/2/1960-10/31/1960	-	§ 28 T14N/R9W Weekly Advance of Ann Lee Mine	Series of 15 Maps	-	§ 28 T14N/R9W
444400829 / 329	Ann Lee	1/4/1960-1/25/1960	Phillips Petroleum	Ann Lee Mine	Series of 4 Maps	-	§ 28 T14N/R9W
444400829 / 329	Ann Lee	3/31/1961	Phillips Petroleum	Advance Heading Ann Lee Mine	-	-	§ 28 T14N/R9W
444400829 / 329	Ann Lee	4/18/1960-3/25/1961	Phillips Petroleum	Weekly Advance Ann Lee Mine	Series of 5 Maps	-	§ 28 T14N/R9W
444400829 / 329	Ann Lee	3/31/1960	Phillips Petroleum	Advance Heading Ann Lee Mine	-	-	§ 28 T14N/R9W
444400829 / 329	Ann Lee	8/10/1959	Phillips Petroleum	Ann Lee Mine	-	-	-
444400829 / 329	Ann Lee	6/27/1961	Phillips Petroleum	Piping Elevations and Details of Pump Station -	-	AFE MM-9521; Drawing	-

				6340' Level (Schematic)		No. UD-2; Sh. No. P- 38-1	
444400829 / 329	Ann Lee	7/28/1961	Phillips Petroleum	Electrical Layout Sub Level Pump Sump (Schematic)	-	AFE MM- 9521; Drawing No. UD-2; Sh. No. E- 52-0	-
444400829 / 329	Ann Lee	7/11/1960- 3/11/1961	Phillips Petroleum	Weekly Advance	Series of 14 Maps	-	§ 28 T14N/R9W
444400829 / 329	Ann Lee	12/5/1957	Phillips Petroleum	Supports for Vertical Pipes in Main Shaft (Schematic)	-	AFE SM- 9506; Drawing No. UA-2; Sh. No. P- 1-1	-
444400829 / 329	Ann Lee	6/30/1960	Phillips Petroleum	Advance Heading Ann Lee Mine	-	-	§ 28 T14N/R9W
444400829 / 329	Ann Lee	5/9/1960- 12/19/1960	Phillips Petroleum	Weekly Advance Ann Lee Mine	Series of 10 Maps	-	§ 28 T14N/R9W
444400829 / 329	Ann Lee	12/31/1960	Phillips Petroleum	Advance Heading Ann Lee Mine	-	-	§ 28 T14N/R9W
444400829 / 329	Ann Lee	8/2/1961	Phillips Petroleum	Piping Plan at South Pump Station - 6340' Level	-	AFE MM- 9521; Drawing UD-2, Sh. No. P-37-1	-
444400829 / 329	Ann Lee	6/19/1961	Phillips Petroleum	Piping at Sump at Sub Level	-	AFE MM- 9521; Drawing UD-2, Sh. No. P-36-1	-
444400829 / 329	Ann Lee	4/14/1961	Phillips Petroleum	Isometric Piping Layout at Sub Level Mining	-	AFE MM- 9521; Drawing UD-2, Sh. No. P-35-0	-
444400829 / 329	Ann Lee	12/28/1957	Phillips Petroleum	Surface Water and Air Piping at Top of Shaft	-	AFE SM- 9506; Drawing No. UD-2; Sh. No. P- 17-3	-
444400829 / 329	Ann Lee	3/6/1958	Phillips Petroleum	Electrical Layout and Details North Sump Area	-	AFE SM- 9506; Drawing No. UD-2; Sh. No. E- 42-3	-
444400829 / 329	Ann Lee	12/31/1958	Phillips Petroleum	Electrical Layout for the Warehouse	-	AFE SM- 9506; Drawing No. UD-2; Sh. No. E- 46-0	-
444400829 / 329	Ann Lee	8/9/1961	Phillips Petroleum	Welding Sketches for South Pump Station at Elevation 6340' and Shaft Bottom	-	AFE MM- 9521; Drawing No. UD-2; Sh. No. P- 40-0	-
444400829 /	Ann Lee	3/13/1958	Phillips	Electrical Wiring	-	AFE SM-	-

329			Petroleum	Diagram North Sump Area		9506; Drawing No. UD-2; Sh. No. E-44-3	
444400829 / 329	Ann Lee	6/20/1961	Phillips Petroleum	Steel Plan and Details at Sump Sub Level	-	AFE MM-9521; Drawing No. UD-2; Sh. No. S-43-0	-
444400829 / 329	Ann Lee	6/21/1961	Phillips Petroleum	Steel Details at Sump Sub Level	-	AFE MM-9521; Drawing No. UD-2; Sh. No. S-44-1	-
444400829 / 329	Ann Lee	5/3/1961	Phillips Petroleum	Incline Drift and from Intersection at Elevation 6340' to Skip Unloading Pocket	-	AFE MM-9521; Drawing No. UD-2; Sh. No. M-62-2	-
444400829 / 329	Ann Lee	8/15/1961	Phillips Petroleum	Cable Routing	-	AFE MM-9521; Drawing No. UD-2; Sh. No. E-58-0	-
444400829 / 329	Ann Lee	6/21/1961	Phillips Petroleum	Concrete Details of Sub Level Sump	-	AFE MM-9521; Drawing No. UD-2; Sh. No. C-22-0	-
444400829 / 329	Ann Lee	6/22/1961	Phillips Petroleum	Concrete Details of Slab at Sub Level Sump	-	AFE MM-9521; Drawing No. UD-2; Sh. No. C-23-0	-
444400829 / 329	Ann Lee	6/28/1961	Phillips Petroleum	Concrete Details of Mine Water Pumps and Pump Station	-	AFE MM-9521; Drawing No. UD-2; Sh. No. C-24-0	-
444400829 / 329	Ann Lee	8/2/1961	Phillips Petroleum	Electrical Layout Main Shaft Sump Area	-	AFE MM-9521; Drawing No. UD-2; Sh. No. E-57-0	-
444400829 / 329	Ann Lee	7/14/1961	Phillips Petroleum	Pump Control and Alarm Schematic Diagrams	-	AFE MM-9521; Drawing No. UD-2; Sh. No. E-55-1	-
444400829 / 329	Ann Lee	6/23/1961	Phillips Petroleum	Piping Plan at South Pump Station - 6340' Level	-	AFE MM-9521; Drawing No. UD-2;	-

						Sh. No. P-37-1	
444400829 / 329	Ann Lee	June of 1961	Phillips Petroleum	Steel Details at Sump Sub Level	-	AFE MM-9521; Drawing No. UD-2; Sh. No. S-44-1	-
444400829 / 329	Ann Lee	7/6/1961	Phillips Petroleum	SWRK #5 Details Sub Level	2 Copies	AFE MM-9521; Drawing No. UD-2; Sh. No. E-53-0	-
444400829 / 329	Ann Lee	8/8/1961	Phillips Petroleum	Wiring Diagram SWRK #5 Sub Level	-	AFE MM-9521; Drawing No. UD-2; Sh. No. E-54-0	-
444400829 / 329	Ann Lee	6/29/1961	Phillips Petroleum	Mine De-watering Flow Sheet	-	AFE MM-9521; Drawing No. UD-2; Sh. No. M-64-1	-
444400829 / 329	Ann Lee	5/22/1961	Phillips Petroleum	Battery Charging Station Sub Level Mining	-	AFE MM-9521; Drawing No. UD-2; Sh. No. M-63-0	-
444400829 / 329	Ann Lee	12/17/1957	Phillips Petroleum	Cable Schedule	-	AFE SM-9506; Drawing No. UD-2; Sh. No. E-30-6	-
444400829 / 329	Ann Lee	12/12/1957	Phillips Petroleum	Electrical Layout Main Shaft Area	-	AFE SM-9506; Drawing No. UD-2; Sh. No. E-25-4	-
444400829 / 329	Ann Lee	6/29/1961	Phillips Petroleum	Mine De-watering Flow Sheet	-	AFE MM-9521; Drawing No. UD-2; Sh. No. M-64-1	-
444400829 / 329	Ann Lee	8/10/1961	Phillips Petroleum	Welding Sketches for Sub Level Sump at 6270' Level	-	AFE MM-9521; Drawing No. UD-2; Sh. No. P-41-0	-
444400829 / 329	Ann Lee	9/30/1959-8/31/1960	Phillips Petroleum	Advance Heading Ann Lee Mine	Series of 5 Maps	-	§ 28 T14N/R9W
444400829 / 329	Ann Lee	2/8/1960-8/22/1960	Phillips Petroleum	§ 28 T14N/R9W Weekly Advance Ann Lee Mine	Series of 11 Maps	-	-
444401062 /	Ann Lee	11/25/1957	Westingh	Schematics for	-	-	-

1310			ouse Electric Corp.	Metal Clad SWGR. Indoor Horizontal Draw out Type 50-DH150			
500048551 / 2240	Ann Lee	-	Teton Exploration Drilling Co Inc	Borehole Chart	Map set of 2: SW Quarter and SE Quarter of § 28	-	§ 28 T14N/R10W

4. *For each mine, describe the activities or operations which were conducted by you on that mine. Provide any and all documentation in your possession which describes the operations which occurred at that mine.*

Response: See generally UNC's response to Request # 2 above, which is incorporated into this response to Request No. 4 by reference. Many of the activities and operations at the mines were conducted by persons or entities other than UNC's and its predecessors. The description of an activity or operation below does not imply that UNC or its predecessors conducted the activity or operation.

a. **Ann Lee Mine:** The UNC 1972 Report states that, "The Ann Lee shaft is a rectangular, 8x12 feet, two level, timbered opening, approximately 740 feet deep. The mining method is room and pillar, with sub-level rail haulage of off-track (rubber tire) haulage equipment. UNC 1972 Report, p. 33, Bates No. SM0011512. The Report adds that, "Mine water from the Sandstone and Ann Lee and Section 27 is processed through a centralized IX system to recover the soluble uranium. Average recovery is about 3000 pounds per month . . . Mine water from the Ann Lee and Sandstone settling ponds is pumped into four tanks located in the United Nuclear mill filter building. The tanks are arranged in two circuits, and the water is circulated through two tanks. The water is bottom fed into each tank and distributed by a perforated plate which supports the resin bed. Each tank contained about 95 cubic feet of resin which is back-flushed with salt solution every four days. Total amount of water currently being process processed is 700 gallons per minute." UNC 1972 Report, p. 56, Bates No. SM0011537.

b. **John Bill Mine:** See UNC's Response to Request # 2, and the documents identified in Attachment B.

c. **Sandstone:** The UNC 1972 Report states that, "The Sandstone shaft is circular, 12 feet in diameter, concrete lined and 970 feet deep. The mining method employed is room and pillar with sublevel rail haulage." Mine water was processed through the centralized IX system described above for the Ann Lee mine. UNC 1972 Report, p. 35, Bates No. SM0011541.

d. **Section 32:** The UNC 1972 Report states that, "The shaft at the Mine is a rectangular, 6x14 feet, timbered opening, that is 657 feet deep. The ore body was developed using sublevel rail haulage and room and pillar mining methods. The Section 32 Mine made about 260 gallons of water per minute. The water was essentially barren of soluble uranium and was not processed in an IX plant." UNC 1972 Report, p. 67, Bates No. SM0011548.

e. **Section 12:** See UNC Response to Question No. 2, and the documents identified in Attachment B.

f. Mary No. 1: See UNC Response to Question No. 2, and the documents identified in Attachment B.

g. Dysart No. 2: See UNC Response to Question No. 2, and the documents identified in Attachment B.

5. *Provide any records on the dewatering of the mine that provide specific information on pump rates, pump station locations, pump sizes and changes in aquifer piezometric heads.*

Response: Responsive records are identified in Attachment B.

6. *Describe what waste by-product(s) was produced during your operations. For each waste by-product identified by the Respondent, describe what you did with these waste by-products.*

- a. *Specifically, also describe what you did with:*
- i. *Uranium protore or uneconomic material*
 - ii. *Any listed or unlisted hazardous substances*
 - iii. *Dewatering or surface water discharge*
- b. *Provide all documentation which describes how waste by-product was stored, treated, disposed or deposited at the property.*
- c. *For each waste by-product identified, provide a map identifying where on the property these wastes were stored, treated, disposed or deposited.*

Response: With respect to dewatering or surface water discharge, a general description of discharges from uranium mines is contained in the EPA Report, "Impacts of Uranium Mining and Milling on Surface and Potable Waters in the Grants Mineral Belt, New Mexico", dated September 1975, Bates Nos. SM001101 – SM0011286. Specifically for the Ann Lee and Sandstone Mines:

Mine water from the Ann Lee, Sandstone and Section 27 is processed through a centralized IX system to recover the soluble uranium. Average recovery is about 3,000 pounds per month . . . Mine water from the Ann Lee and Sandstone settling ponds is pumped into four tanks located in the United Nuclear mill filter building. The tanks are arranged in two circuits and the water is circulated through two tanks. The water is bottom fed into each tank and distributed by a perforated plate which supports the resin bed. Each tank contained about 95 cubic feet of resin which is back flushed with salt solution every four days. Total amount of water currently being process processed is 700 gallons per minute.

UNC 1972 Report, p. 56, Bates Nos. SM0011537. Additional information responsive to this request is set forth in the documents identified in Attachment B.

7. *Identify and describe all reclamation or cleanup efforts made by the Respondent to address waste by-products and/or prevent potential releases of hazardous substances.*

Response:

a. Ann Lee Mine: Apart from 1/10 acre, the U.S. Dept. of Energy undertook cleanup and reclamation activities for radioactive materials around the mine as part of a DOE cleanup, stabilization and remediation program. According to the New Mexico Energy, Minerals and Natural Resource Department, Mining and Minerals Division (the "NMMMD"):

A quarter acre mound is located where the shaft is located. The mineshaft was backfilled with nontoxic mine waste material and capped with a concrete slab approximately 20 feet square and 4 feet thick. The concrete cap was not covered with soil. A barbed wire fence surrounded the site. All structures, trash, or junk had been removed from the site. There were no piles or accumulation of toxic or waste material on the site. There were no apparent hazards that could affect public safety.

There were no erosion features. All out slopes were stable.

An average of three feet of topsoil had been removed from the area around the site. Redistributed topsoil depths onsite were approximately three feet.

NMMMD Prior Reclamation Inspection Report and Recommendation for Release or [sic] Permit Requirement – UNC, Ann Lee Mine, Sept. 18, 1995, Bates No. SM0011137, UNC 66669. NMMMD also noted that the site had been seeded, but vegetation was sparse. *Id.* NMMMD praised UNC for its efforts to comply with the New Mexico Mining Act, but found that additional reclamation was required (covering the concrete slab over the shaft with two feet of soil, and reseeding) before UNC could be released from further requirements under the New Mexico Mining Act. *Id.*, UNC 66672-66673, Bates Nos. SM0011137 – SM0011138. UNC then submitted a public notice for a variance for the Ann Lee, John Bill and Sandstone Mines in 1997 in order to provide up to two additional growing seasons before NMMMD made a decision on whether UNC's reclamation measures at these mines satisfied the requirements of the New Mexico Mining Act. 1997 Public Notice, Bates No. SM0011133.

NMMMD recommended covering the concrete slap with soil and reseeding. In a June 15, 2007 letter to Mr. Larry Bush of UNC, NMMMD identified the John Bill, Sandstone and Ann Lee mines, and stated that these mines qualified as "existing mines" under the New Mexico Mining Act. 6/15/07 Letter from NMMMD to Larry Bush, Bates No. SM0011124. The letter provides that under the Act, "an owner or operator of an existing mine where reclamation has previously occurred [can] apply to the NMMMD for a determination that the prior reclamation is sufficient to release the mine from the Acts requirements." The June 15, 2007 NMMMD letter recognized that UNC applied for such a release for all three mines in 1994,

but noted that NMMMD informed UNC through a September 19, 1995 letter that the releases could not be granted.

In a July 10, 2007 letter to NMMMD, Bates No. SM0011127 – SM000011128, GE, on behalf of UNC, informed NMMMD that the majority of the Ann Lee Mine site was reclaimed as a vicinity property by the Department of Energy when DOE completed the UMTRCA Title I closure of the Philips Mill. The only remaining portion of property that apparently was not reclaimed is the approximately ½ acre or less fenced parcel that contains the concrete mine pad. UNC cooperated with NMMMD and granted NMMMD access to the property to perform and inspection. At the time, UNC stated its understanding that the only remaining requirement at the Ann Lee Mine and the John Bill Mine, discussed below, was to reinspect the vegetation work that had been carried out following initial seeding in the late 1990s, which had not attained the required density due to drought conditions in existence at the time.

b. John Bill Mine and Sandstone Mine: A barbed wire fence surrounded the area of the mines at the time of a NMMMD's inspection in the mid-1990s. NMMMD reported in its 1995 Report that:

There were no accumulations of toxic or waste material on either area. There were no erosion features.

The mine shafts had each been backfilled with non-toxic mine waste material and capped with concrete slabs approximately 20 feet square and 4 feet thick. The concrete caps were not covered in soil. Concrete slabs from several removed buildings were left uncovered.

The soil depth within the site was over two feet deep.

The area had been reseeded last fall but vegetation was very sparse. . . .

Pipe, steel scrap, and miscellaneous mining and demolition related material were left on the Sandstone Mine site according to a prior agreement with the lessee. [cite]. Additional buildings and pipe have been brought onto the site by the lessee. [cite omitted.] The materials were not piled neatly but were strewn around.

NMMMD Prior Reclamation Inspection Report and Recommendation for Release or [sic] Permit Requirement – United Nuclear Corporation, Sandstone and John-Bill Mines, September 18, 1995, Bates No. SM0011569. The 1995 Inspection Report recommended covering the concrete slabs that had been placed over the mine shafts with two feet of soil or other suitable material, and reseeding. *Id.*

In 1997 UNC sought a variance for two additional growing seasons before NMMMD attempted to determine whether UNC's reclamation measures satisfy the requirements of the New Mexico Mining Act. 1997 Public Notice, Bates No. SM0011133 NMMMD granted the variance. 5/25/99 letter from NMMMD to UNC, Bates Nos. SM0011129 – SM0011130. At the

conclusion of the variance period in May of 1997, NMMMD released the Sandstone Mine from any further requirements under the New Mexico Mining Act. *Id.*

In a June 15, 2007 letter to Mr. Larry Bush of UNC, NMMMD identified the John Bill, Sandstone and Ann Lee mines, and stated that these mines qualified as “existing mines” under the New Mexico Mining Act. June 15, 2007 Letter from NMMMD to Larry Bush, Bates Nos. SM0011124 – SM0011126. The letter provides that under the Act, “an owner or operator of an existing mine where reclamation has previously occurred [can] apply to the NMMMD for a determination that the prior reclamation is sufficient to release the mine from the Act’s requirements.” The June 15, 2007 NMMMD letter states that UNC applied for such a release for all three mines in 1994. However, the June 15, 2007 letter adds that NMMMD informed UNC through a September 19, 1995 letter that the releases could not be granted for all three mines.

In a July 10, 2007 from GE (on behalf of UNC) to NMMMD, Mr. Roy Blickwedel refreshed NMMMD’s recollection that NMMMD had previously released the Sandstone Mine from any further requirements.⁶ July 10, 2007 letter from Roy Blickwedel at GE to Holland Shephard, Program Manager of the New Mexico Mining Act Reclamation Program, Mining and Minerals Division, Bates Nos. SM0011127 – SM0011128.

c. Section 32, Dysart No. 2, and Mary No. 1 Mines. Homestake has indemnified UNC for Section 32, Dysart No. 2 and the Mary No. 1 mines. See February 21, 1981 Agreement between UNC and Homestake Mining Company, Bates Nos. SM0011573 – SM0011600. Pursuant to the 1981 Agreement, Homestake is responsible for, among other things, discharges into the environment from these facilities and for the cleanup of any tailings or mine wastes at these facilities. Thus, UNC has not undertaken reclamation or cleanup efforts at these mines. UNC is not aware of the extent of any cleanup or reclamation efforts undertaken by Homestake at these mines.

d. Section 12. At this time, UNC has no knowledge about its involvement in any operations or any reclamation/cleanup at the Section 12 mine. We will continue to review documents and investigate this question during the extension period UNC has requested for responding to the Request.

Corporate History

8. *Identify all of the Respondent’s predecessor corporations.*

Response: UNC objects to this Request to the extent that it seeks information or documents outside the scope of information that EPA is authorized to seek under sections 104(e)(1) and (2) of CERCLA, 42 U.S.C. § 9604(e)(1) and (2). Without waiving and subject to UNC’s objections, UNC responds as follows:

⁶ The July 10, 2007 letter noted that UNC became a wholly-owned subsidiary of GE in 1997, and that GE Corporate Environmental Programs had been retained through a separate administrative services agreement to assist UNC technically and administratively with environmental issues at the sites.

A chronology of UNC's predecessors is presented below.⁷ These facts were gleaned primarily from two confidential business information documents: "In the Beginning . . . A History of United Nuclear Corporation," Bates Nos. SM0011433 – SM0011438, which appears to have been created in approximately 1975, and "Profile of UNC Mining and Milling Division," Bates Nos. SM0011660 – SM0011668, which appears to have been created in approximately 1982. Although UNC believes that the information presented below is accurate, no representations or warranties are made as to the accuracy or completeness of the information and UNC has no liability in connection with such information. Additional information, if any, regarding corporate predecessors will be provided in UNC's final Response.

1. 7/1954: Sabre Uranium Corporation formed.
2. 8/1954: Green Hornet Uranium Corporation formed.
3. 4/1955: Pinon Uranium Company, Inc. formed as successor to Green Hornet.
4. 6/1956: Sabre and Pinon combine to form Sabre-Pinon Corporation.
5. 12/1956: Sabre-Pinon and Homestake Mining Co. form Homestake-Sapin Partners.
6. 4/1957: Homestake-Sapin enters into contract with Atomic Energy Commission to construct mill, under which government exercises pervasive control and purchases entire output of mill until 6/1963. Mine development begins immediately. Bates Nos. SM0011616 – SM0011655.
7. Approximately 1958: Sabre-Pinon forms Lance Corporation to acquire additional properties; explores for uranium in Ambrosia Lake area.
8. 12/1958: Sabre-Pinon purchases all properties of the Blackjack Corporation.
9. 5/31/1961: "Old" United Nuclear was incorporated on March 10, 1961, to acquire the assets of Nuclear Development Corporation ("NDA"), the Nuclear Fuels Operations of Olin Mathisen Chemical Corporation, and the Nuclear Division of Mallinckrodt Chemical Works. These acquisitions were effected on May 31, 1961, consolidating three independent businesses into a single company.
10. 7/1961: Sabre-Pinon purchases interest in Homestake-New Mexico Partners.
11. 12/1961: Lance Corporation, Homestake-New Mexico Partners, additional properties consolidated into Homestake-Sapin Partners. Sabre-Pinon's ownership share reduced to 65%. The principal asset of Sabre-Pinon is its ownership share in Homestake-Sapin Partners.

⁷ By presenting this chronology of predecessors, UNC does not admit and reserves its right to contest liability arising from the acts, omissions, activities, ownership and/or operations of any or all of these entities, including without limitation any liability UNC may have as an alleged successor to or parent of these entities.

12. 4/1962: United Nuclear Corporation and Sabre-Pinon combine, and Sabre Pinon's name changed to United Nuclear Corporation.
13. 1962: Atomic Energy Commission announces that its purchase agreements will be modified to "stretch out" delivery periods. Previously, all amounts delivered by 12/31/1966. Now such deliveries made over additional two years, with option to negotiate further purchases at the same stretched out delivery rate for two more years. This encourages additional acquisitions.
14. 1963: UNC purchases uranium interests from Phillips Petroleum Company in Ambrosia Lake area, including an additional contract to deliver uranium to the Atomic Energy Commission.
15. 7/1963: UNC acquires Quinta Corporation and Bigbee Stephenson Group, Inc. in exchange for stock.
16. 10/1965: UNC stock listed on the New York Stock Exchange. *See* United Nuclear Corporation Listing Application to New York Stock Exchange, Bates Nos. SM0011669 – SM0011710 UNC Nos. 00005023-5064.
17. 1968: Homestake-Sapin Partners changes its name to United Nuclear-Homestake Partners.
18. 1968: UNC acquires, for stock, the Teton Exploration Drilling Company. UNC consolidates its uranium exploration program under Teton as a wholly-owned subsidiary.
19. UNC enters into a 50/50 joint venture with Tennessee Valley Authority("TVA") to explore a number of properties.
20. 1975: UNC sells its 50% joint venture interest to TVA, including New Mexico properties.
21. 1978: UNC creates holding company, UNC Resources, Inc. It is later renamed UNC, Inc.
22. 2/1981: United Nuclear-Homestake partnership dissolved; UNC's 70% interest sold to Homestake.

9. *Identify all subsidiaries of the Respondent's predecessor corporations.*

Response: *See* response to Question No. 8 above, which is incorporated herein.

10. *If the Respondent is a corporation, provide EPA with a copy of the Articles of Incorporation and By-Laws of the Respondent.*

Response: UNC objects to this Request, including any related request for production of documents, to the extent that it seeks information or documents outside the scope of information that EPA is authorized to seek under sections 104(e)(1) and (2) of CERCLA, 42 U.S.C.

§ 9604(e)(1) and (2). Without waiving and subject to these objections, UNC is continuing to review documents and will provide responsive documents with its final response.

11. *Was the Respondent ever dissolved, either formally or otherwise? If so, describe the dissolution of the company which dissolved. In your description, identify to whom the assets were transferred. In your description, identify to whom the liabilities were transferred.*

Response: UNC was not dissolved formally or informally.

12. *Has the Respondent ever filed for bankruptcy or been liquidated? If so, describe the bankruptcy or liquidation. In your description, identify to whom the assets were transferred. In your description, identify to whom the liabilities were transferred.*

Response: UNC has not filed for bankruptcy or been liquidated.

13. *Has the Respondent ever been sold? If so, describe the sale. In your description, identify to whom the assets were transferred. In your description, identify to whom the liabilities were transferred. In your description, describe the form and terms of the transfer (e.g., whether it was a sale of assets, a sale of stock, or other form of transaction).*

Response: UNC objects to this Request to the extent that it seeks information or documents outside the scope of information that EPA is authorized to seek under sections 104(e)(1) and (2) of CERCLA, 42 U.S.C. § 9604(e)(1) and (2). Without waiving and subject to UNC's objections, UNC responds as follows: As of September 1997, UNC became a wholly owned, indirect subsidiary of the General Electric Company. On September 2, 1997, General Electric Company acquired Greenwich Air Services, Inc. (later renamed GE Engine Services-Miami, Inc.). Greenwich Air Services acquires UNC, Inc. on September 17, 1997. General Electric Company owns GE Engine Services-Miami, Inc., which owns GE Engine Services UNC Holding I, Inc. (formerly UNC, Inc.), which owns United Nuclear Corporation.

14. *Has the Respondent ever been merged with or acquired by another entity? If so, describe the merger or acquisition. In your description, identify to whom the assets were transferred, to whom the liabilities were transferred, and the form and terms of the transfer (e.g., whether it was a sale of assets, a sale of stock, or other form of transaction).*

Response: UNC objects to this Request to the extent that it seeks information or documents outside the scope of information that EPA is authorized to seek under sections 104(e)(1) and (2) of CERCLA, 42 U.S.C. § 9604(e)(1) and (2). Without waiving and subject to UNC's objections, UNC responds as follows: See responses to Request Nos. 8 and 13 above. Additional information responsive to this request, if any, will be provided in UNC's final Response.

15. *If you have any reason that there may be persons able to provide a more detailed or complete response to any part of this information request or who may be able to provide additional responsive documents, please identify such persons, including their last-known addresses and telephone numbers.*

Response:

a. **United States:** From the time uranium mineral exploration and development commenced in the area of these mines, the United States was involved in promoting uranium mining activity. The United States exercised pervasive control over the entire uranium industry from the 1940s through 1970, including all aspects of uranium exploration, production, processing, and marketing. The United States was, through the late 1960s, the sole purchaser of virtually all of the uranium produced from all domestic uranium mines, including the mines identified in the Request.

These mines identified in the request were originally constructed as part of the United States' decades-long program to purchase uranium for its own military purposes and to supply uranium for the emerging nuclear power industry. When the United States first developed atomic weapons in the 1940s, there was no commercial production of uranium ore in the United States. For strategic reasons, the United States decided to use private industry to mine and process uranium ore so the United States could buy it from domestic sources. To implement that policy, the United States entered into exclusive contracts with private parties, such as UNC, to buy uranium from them.

As a practical matter, the United States provided the only viable market for domestic uranium from the 1940s through the 1960s. In 1962, it was apparent that the private market for uranium concentrate would not be sufficient to sustain a viable domestic uranium industry by the end of 1966 when the AEC's program was scheduled to end. Thus, in November 1962, the AEC announced its "stretch-out" program for 1967 through 1970. Under the "stretch-out" program, government contractors could voluntarily defer a portion of their 1963-1966 contract commitments to the United States until 1967 or 1968 in exchange for a commitment by the United States to purchase an additional amount of uranium oxide, equal to the quantity deferred, in 1969 or 1970.

The United States, its departments, agents and instrumentalities, is a potentially responsible party under section 107(a) of CERCLA at each of the mine sites identified in the Information Request. Because of the pervasive and dominant control the United States government exercised over the entire uranium industry and over these, the United States has a wealth of knowledge and information responsive to this Request.

b. **The State of New Mexico:** The New Mexico Mining and Minerals Division of the State's Energy, Minerals and Natural Resources Department likely has additional information regarding these sites. Also, it appears that the State is or was owner of at least one site, Section 32.

c. **Homestake Mining Company:** As noted in the response to Request No. 2 above and the transmittal letter for this Response, Homestake Mining Company and its predecessors were engaged in activities at the Section 32, Dysart No. 2 and Mary No. 1 mines, and had provided UNC and its predecessors with indemnification for liabilities associated with these mines.

ATTACHMENT B

LIST OF BATES NUMBERS RESPONSIVE TO REQUESTS BY SITE

Decontrolled per Doc 9322279 D. Ortiz/EPA 08/22/2017

Decontrolled per Doc 9322279 D. Ortiz/EPA 08/22/2017

ANN LEE MINE**Documents Responsive to Request No. 2**

Begdoc#	Enddoc#
SM0001735	SM0002232
SM0002233	SM0002379
SM0002380	SM0002732
SM0003036	SM0003038
SM0004548	SM0004560
SM0004561	SM0004573
SM0004574	SM0004583
SM0005932	SM0005943
SM0005944	SM0005947
SM0005948	SM0005966
SM0006060	SM0006063
SM0006092	SM0006097
SM0006100	SM0006105
SM0006124	SM0006129

Documents Responsive to Request No. 3

Begdoc#	Enddoc#
SM0001293	SM0001293
SM0001294	SM0001294
SM0002985	SM0002985
SM0003573	SM0003880
SM0006196	SM0006201
SM0006202	SM0006202

2085807.2

Documents Responsive to Request No. 4

Begdoc#	Enddoc#	Begdoc#	Enddoc#	Begdoc#	Enddoc#
SM0000001	SM0000009	SM0001348	SM0001348	SM0001396	SM0001396
SM0000010	SM0000013	SM0001349	SM0001349	SM0001397	SM0001397
SM0000018	SM0000020	SM0001350	SM0001350	SM0001398	SM0001398
SM0000021	SM0000025	SM0001351	SM0001351	SM0001399	SM0001399
SM0000026	SM0000035	SM0001352	SM0001352	SM0001400	SM0001400
SM0000036	SM0000048	SM0001353	SM0001353	SM0001401	SM0001401
SM0000077	SM0000111	SM0001354	SM0001354	SM0001402	SM0001402
SM0000112	SM0000155	SM0001355	SM0001355	SM0001403	SM0001403
SM0000156	SM0000174	SM0001356	SM0001356	SM0001404	SM0001406
SM0000184	SM0000187	SM0001357	SM0001357	SM0001447	SM0001449
SM0000188	SM0000191	SM0001358	SM0001358	SM0001450	SM0001454
SM0000192	SM0000195	SM0001359	SM0001359	SM0001455	SM0001459
SM0000222	SM0000227	SM0001360	SM0001360	SM0001460	SM0001464
SM0000233	SM0000244	SM0001361	SM0001361	SM0001465	SM0001472
SM0000268	SM0000268	SM0001362	SM0001362	SM0001473	SM0001473
SM0000272	SM0000314	SM0001363	SM0001363	SM0001474	SM0001474
SM0000370	SM0000370	SM0001364	SM0001364	SM0001475	SM0001475
SM0000491	SM0000493	SM0001365	SM0001365	SM0001476	SM0001476
SM0000708	SM0000717	SM0001366	SM0001366	SM0001477	SM0001477
SM0000718	SM0000729	SM0001367	SM0001367	SM0001478	SM0001478
SM0000730	SM0000743	SM0001368	SM0001368	SM0001479	SM0001479
SM0000749	SM0000764	SM0001369	SM0001369	SM0001480	SM0001480
SM0000765	SM0000779	SM0001370	SM0001370	SM0001481	SM0001481
SM0000780	SM0000795	SM0001371	SM0001371	SM0001482	SM0001482
SM0000796	SM0000812	SM0001372	SM0001372	SM0001483	SM0001483
SM0000813	SM0000829	SM0001373	SM0001373	SM0001484	SM0001484
SM0000830	SM0000843	SM0001374	SM0001374	SM0001485	SM0001485
SM0000891	SM0000940	SM0001375	SM0001375	SM0001486	SM0001486
SM0001328	SM0001328	SM0001376	SM0001376	SM0001487	SM0001487
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SM0001330	SM0001330	SM0001378	SM0001378	SM0001489	SM0001489
SM0001331	SM0001331	SM0001379	SM0001379	SM0001490	SM0001490
SM0001332	SM0001332	SM0001380	SM0001380	SM0001491	SM0001491
SM0001333	SM0001333	SM0001381	SM0001381	SM0001492	SM0001492
SM0001334	SM0001334	SM0001382	SM0001382	SM0001493	SM0001493
SM0001335	SM0001335	SM0001383	SM0001383	SM0001494	SM0001494
SM0001336	SM0001336	SM0001384	SM0001384	SM0001495	SM0001495
SM0001337	SM0001337	SM0001385	SM0001385	SM0001496	SM0001496
SM0001338	SM0001338	SM0001386	SM0001386	SM0001497	SM0001497
SM0001339	SM0001339	SM0001387	SM0001387	SM0001498	SM0001498
SM0001340	SM0001340	SM0001388	SM0001388	SM0001499	SM0001499
SM0001341	SM0001341	SM0001389	SM0001389	SM0001500	SM0001500
SM0001342	SM0001342	SM0001390	SM0001390	SM0001501	SM0001501
SM0001343	SM0001343	SM0001391	SM0001391	SM0001502	SM0001502
SM0001344	SM0001344	SM0001392	SM0001392	SM0001503	SM0001522
SM0001345	SM0001345	SM0001393	SM0001393	SM0001523	SM0001539
SM0001346	SM0001346	SM0001394	SM0001394	SM0001540	SM0001540
SM0001347	SM0001347	SM0001395	SM0001395	SM0001541	SM0001541

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SM0001543	SM0001543	SM0001702	SM0001705	SM0001702	SM0001705
SM0001544	SM0001544	SM0001706	SM0001709	SM0001706	SM0001709
SM0001545	SM0001545	SM0001710	SM0001713	SM0001710	SM0001713
SM0001546	SM0001546	SM0001714	SM0001717	SM0001714	SM0001717
SM0001547	SM0001547	SM0001718	SM0001721	SM0001718	SM0001721
SM0001548	SM0001548	SM0001722	SM0001722	SM0001722	SM0001722
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SM0001554	SM0001556	SM0001726	SM0001734	SM0001726	SM0001734
SM0001557	SM0001560	SM0002733	SM0002737	SM0002733	SM0002737
SM0001561	SM0001561	SM0002738	SM0002742	SM0002738	SM0002742
SM0001562	SM0001563	SM0002753	SM0002756	SM0002753	SM0002756
SM0001564	SM0001564	SM0002757	SM0002758	SM0002757	SM0002758
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SM0001566	SM0001566	SM0002767	SM0002822	SM0002767	SM0002822
SM0001567	SM0001567	SM0002823	SM0002836	SM0002823	SM0002836
SM0001568	SM0001568	SM0002837	SM0002864	SM0002837	SM0002864
SM0001569	SM0001582	SM0002865	SM0002870	SM0002865	SM0002870
SM0001583	SM0001583	SM0002898	SM0002899	SM0002898	SM0002899
SM0001584	SM0001584	SM0002900	SM0002900	SM0002900	SM0002900
SM0001585	SM0001585	SM0002901	SM0002901	SM0002901	SM0002901
SM0001586	SM0001587	SM0003135	SM0003155	SM0003135	SM0003155
SM0001588	SM0001588	SM0003156	SM0003204	SM0003156	SM0003204
SM0001589	SM0001602	SM0003230	SM0003241	SM0003230	SM0003241
SM0001603	SM0001606	SM0003242	SM0003242	SM0003242	SM0003242
SM0001607	SM0001610	SM0003243	SM0003243	SM0003243	SM0003243
SM0001611	SM0001614	SM0003244	SM0003244	SM0003244	SM0003244
SM0001615	SM0001618	SM0003245	SM0003245	SM0003245	SM0003245
SM0001619	SM0001623	SM0003246	SM0003254	SM0003246	SM0003254
SM0001624	SM0001624	SM0003255	SM0003265	SM0003255	SM0003265
SM0001625	SM0001628	SM0003266	SM0003273	SM0003266	SM0003273
SM0001629	SM0001632	SM0003274	SM0003277	SM0003274	SM0003277
SM0001633	SM0001634	SM0003278	SM0003278	SM0003278	SM0003278
SM0001635	SM0001635	SM0003279	SM0003279	SM0003279	SM0003279
SM0001636	SM0001636	SM0003280	SM0003280	SM0003280	SM0003280
SM0001637	SM0001637	SM0003281	SM0003281	SM0003281	SM0003281
SM0001638	SM0001648	SM0003282	SM0003282	SM0003282	SM0003282
SM0001649	SM0001657	SM0003283	SM0003283	SM0003283	SM0003283
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SM0001659	SM0001661	SM0003285	SM0003287	SM0003285	SM0003287
SM0001662	SM0001662	SM0003288	SM0003289	SM0003288	SM0003289
SM0001663	SM0001664	SM0003290	SM0003290	SM0003290	SM0003290
SM0001665	SM0001667	SM0003291	SM0003292	SM0003291	SM0003292
SM0001668	SM0001668	SM0003293	SM0003293	SM0003293	SM0003293
SM0001669	SM0001669	SM0003294	SM0003294	SM0003294	SM0003294
SM0001670	SM0001670	SM0003295	SM0003295	SM0003295	SM0003295
SM0001671	SM0001671	SM0003296	SM0003296	SM0003296	SM0003296
SM0001672	SM0001685	SM0003297	SM0003297	SM0003297	SM0003297
SM0001686	SM0001699	SM0003298	SM0003298	SM0003298	SM0003298

Begdoc#	Enddoc#	Begdoc#	Enddoc#	Begdoc#	Enddoc#
SM0003573	SM0003880	SM0003932	SM0003932	SM0003981	SM0003981
SM0003881	SM0003883				
SM0003884	SM0003884	SM0003933	SM0003933	SM0003982	SM0003982
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Documents Responsive to Request No. 5

No documents at this time.

Documents Responsive to Request No. 6

No documents at this time.

Documents Responsive to Request No. 7

SM0000014 SM0000017

SM0000018 SM0000020

SM0000021 SM0000025

SM0000026 SM0000035

Documents Responsive to Request Nos. 8 - 15

No documents at this time.

DYSART NO. 2 - SECTION 11 MINE**Documents Responsive to Request No. 2**

Begdoc#	Enddoc#
SM0002233	SM0002379
SM0002986	SM0003025
SM0003127	SM0003128
SM0004548	SM0004560
SM0004561	SM0004573

Documents Responsive to Request No. 3

Begdoc#	Enddoc#
SM0002985	SM0002985
SM0004548	SM0004560

Documents Responsive to Request No. 4

Begdoc#	Enddoc#
SM0003081	SM0003095

Documents Responsive to Request No. 5

Begdoc#	Enddoc#
SM0003081	SM0003095

Documents Responsive to Request No. 6

No documents at this time.

Documents Responsive to Request No. 7

No documents at this time.

Documents Responsive to Request Nos. 8 - 15

No documents at this time.

JOHN BILL MINE**Documents Responsive to Request No. 2**

Begdoc#	Enddoc#
SM0001735	SM0002232

Documents Responsive to Request No. 3

No documents at this time.

Documents Responsive to Request No. 4

Begdoc#	Enddoc#
SM0000001	SM0000009
SM0000010	SM0000013
SM0000018	SM0000020
SM0000021	SM0000025
SM0000026	SM0000035
SM0000460	SM0000487
SM0000891	SM0000940
SM0003156	SM0003204

Documents Responsive to Request No. 5

No documents at this time.

Documents Responsive to Request No. 6

No documents at this time.

Documents Responsive to Request No. 7

Begdoc#	Enddoc#
SM0000014	SM0000017
SM0000018	SM0000020
SM0000021	SM0000025
SM0000026	SM0000035

Documents Responsive to Request Nos. 8 - 15

No documents at this time.

MARY NO. 1 - SECTION 11 MINE

Documents Responsive to Request No. 2

No documents at this time.

Documents Responsive to Request No. 3

Begdoc#	Enddoc#
SM0002985	SM0002985

Documents Responsive to Request No. 4

No documents at this time.

Documents Responsive to Request No. 5

No documents at this time.

Documents Responsive to Request No. 6

No documents at this time.

Documents Responsive to Request No. 7

No documents at this time.

Documents Responsive to Request No. 8 – 15

No documents at this time.

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SANDSTONE MINE**Documents Responsive to Request No. 2**

Begdoc#	Enddoc#
SM0000049	SM0000076
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Documents Responsive to Request No. 3

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Documents Responsive to Request No. 4

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SM0005552	SM0005552	SM0005618	SM0005618	SM0005676	SM0005676	SM0005730	SM0005731
SM0005553	SM0005553	SM0005619	SM0005619	SM0005677	SM0005677	SM0005732	SM0005732
SM0005554	SM0005555	SM0005620	SM0005620	SM0005678	SM0005678	SM0005733	SM0005733
SM0005556	SM0005557	SM0005621	SM0005621	SM0005679	SM0005679	SM0005734	SM0005734
SM0005558	SM0005559	SM0005622	SM0005622	SM0005680	SM0005680	SM0005735	SM0005735
SM0005560	SM0005561	SM0005623	SM0005623	SM0005681	SM0005681	SM0005736	SM0005736
SM0005562	SM0005563	SM0005624	SM0005624	SM0005682	SM0005682	SM0005737	SM0005737
SM0005564	SM0005565	SM0005625	SM0005625	SM0005683	SM0005683	SM0005738	SM0005738
SM0005566	SM0005567	SM0005626	SM0005626	SM0005684	SM0005685	SM0005739	SM0005739

SM0005740	SM0005740	SM0005802	SM0005802
SM0005741	SM0005741	SM0005803	SM0005803
SM0005742	SM0005743	SM0005804	SM0005804
SM0005744	SM0005744	SM0005805	SM0005805
SM0005745	SM0005745	SM0005806	SM0005806
SM0005746	SM0005746	SM0005807	SM0005808
SM0005747	SM0005747	SM0005809	SM0005810
SM0005748	SM0005748	SM0005811	SM0005811
SM0005749	SM0005750	SM0005812	SM0005812
SM0005751	SM0005751	SM0005813	SM0005813
SM0005752	SM0005752	SM0005814	SM0005814
SM0005753	SM0005753	SM0005815	SM0005815
SM0005754	SM0005754	SM0005816	SM0005816
SM0005755	SM0005756	SM0005817	SM0005817
SM0005757	SM0005758	SM0005818	SM0005819
SM0005759	SM0005759	SM0005820	SM0005821
SM0005760	SM0005760	SM0005822	SM0005822
SM0005761	SM0005762	SM0005823	SM0005823
SM0005763	SM0005763	SM0005824	SM0005824
SM0005764	SM0005764	SM0005825	SM0005825
SM0005765	SM0005765		
SM0005766	SM0005767		
SM0005768	SM0005768		
SM0005769	SM0005769		
SM0005770	SM0005770		
SM0005771	SM0005771		
SM0005772	SM0005773		
SM0005774	SM0005775		
SM0005776	SM0005776		
SM0005777	SM0005777		
SM0005778	SM0005778		
SM0005779	SM0005779		
SM0005780	SM0005780		
SM0005781	SM0005781		
SM0005782	SM0005782		
SM0005783	SM0005783		
SM0005784	SM0005784		
SM0005785	SM0005785		
SM0005786	SM0005787		
SM0005788	SM0005789		
SM0005790	SM0005791		
SM0005792	SM0005792		
SM0005793	SM0005793		
SM0005794	SM0005794		

SM0005795	SM0005795
SM0005796	SM0005796
SM0005797	SM0005797
SM0005798	SM0005798
SM0005799	SM0005799
SM0005800	SM0005800
SM0005801	SM0005801

Documents Responsive to Request No. 5

Begdoc#	Enddoc#
SM0000260	SM0000260
SM0000268	SM0000268
SM0000355	SM0000369
SM0000370	SM0000370
SM0002952	SM0002982
SM0006130	SM0006149

Documents Responsive to Request No. 6

No documents at this time.

Documents Responsive to Request No. 7

Begdoc#	Enddoc#
SM0000014	SM0000017
SM0000018	SM0000020
SM0000021	SM0000025
SM0000026	SM0000035

Documents Responsive to Request Nos. 8 - 15

No documents at this time.

SECTION 12 MINE**Documents Responsive to Request No. 2**

Begdoc#	Enddoc#
SM0001735	SM0002232

Documents Responsive to Request No. 3

Begdoc#	Enddoc#
SM0002985	SM0002985
SM0006196	SM0006201
SM0006202	SM0006202
SM0006203	SM0006203
SM0006204	SM0006204
SM0006205	SM0006205
SM0006206	SM0006206
SM0006207	SM0006207
SM0006208	SM0006214
SM0006215	SM0006221
SM0006222	SM0006223
SM0006224	SM0006225
SM0006226	SM0006230
SM0006231	SM0006233
SM0006234	SM0006234
SM0006235	SM0006236
SM0006237	SM0006238
SM0006239	SM0006243
SM0006244	SM0006247
SM0006248	SM0006248
SM0006249	SM0006275
SM0006276	SM0006279
SM0006280	SM0006280
SM0006281	SM0006281
SM0006282	SM0006285
SM0006286	SM0006290
SM0006291	SM0006314
SM0006315	SM0006319
SM0006320	SM0006320
SM0006321	SM0006321
SM0006322	SM0006322
SM0006323	SM0006323

Documents Responsive to Request No. 4

No documents at this time.

Documents Responsive to Request No. 5

No documents at this time.

2085817.1

Documents Responsive to Request No. 6

No documents at this time.

Documents Responsive to Request No. 7

No documents at this time.

Documents Responsive to Request Nos. 8 - 15

No documents at this time.

SECTION 32 MINE**Documents Responsive to Request No. 2**

Begdoc#	Enddoc#
SM0000049	SM0000076
SM0001206	SM0001207
SM0001295	SM0001326
SM0001735	SM0002232
SM0002233	SM0002379
SM0004574	SM0004583

Documents Responsive to Request No. 3

Begdoc#	Enddoc#
SM0002985	SM0002985
SM0003573	SM0003880
SM0004574	SM0004583
SM0006152	SM0006152

Documents Responsive to Request No. 4

Begdoc#	Enddoc#	Begdoc#	Enddoc#	Begdoc#	Enddoc#
SM0000077	SM0000111	SM0003230	SM0003241	SM0003298	SM0003298
SM0000112	SM0000155	SM0003242	SM0003242	SM0004066	SM0004373
SM0000233	SM0000244	SM0003243	SM0003243		
SM0000494	SM0000538	SM0003244	SM0003244		
SM0000539	SM0000561	SM0003245	SM0003245		
SM0000562	SM0000581	SM0003246	SM0003254		
SM0000585	SM0000601	SM0003255	SM0003265		
SM0000602	SM0000618	SM0003266	SM0003273		
SM0000619	SM0000636	SM0003274	SM0003277		
SM0000637	SM0000654	SM0003278	SM0003278		
SM0000655	SM0000666	SM0003279	SM0003279		
SM0000667	SM0000676	SM0003280	SM0003280		
SM0000677	SM0000686	SM0003281	SM0003281		
SM0000687	SM0000696	SM0003282	SM0003282		
SM0000697	SM0000707	SM0003283	SM0003283		
SM0000891	SM0000940	SM0003284	SM0003284		
SM0000941	SM0000958	SM0003285	SM0003287		
SM0000959	SM0000976	SM0003288	SM0003289		
SM0000977	SM0000993	SM0003290	SM0003290		
SM0000994	SM0001033	SM0003291	SM0003292		
SM0001034	SM0001056	SM0003293	SM0003293		
SM0001057	SM0001082	SM0003294	SM0003294		
SM0001083	SM0001109	SM0003295	SM0003295		
SM0001110	SM0001156	SM0003296	SM0003296		
SM0001157	SM0001200	SM0003297	SM0003297		

Documents Responsive to Request No. 5

Begdoc#	Enddoc#
SM0002985	SM0002985

Documents Responsive to Request No. 6

No documents at this time.

Documents Responsive to Request No. 7

Begdoc#	Enddoc#
SM0001291	SM0001292

Documents Responsive to Request Nos. 8 - 15

No documents at this time.

ATTACHMENT C**GENERAL OBJECTIONS AND OBJECTIONS
TO INSTRUCTIONS AND DEFINITIONS****GENERAL OBJECTIONS**

1. UNC objects to the Request, including the requests for production of documents contained therein, to the extent that it seeks to impose upon UNC obligations to investigate or respond that are different from, other than, inconsistent with, or beyond the scope of obligations imposed under section 104(e) of CERCLA, 42 U.S.C. § 9604(e), or otherwise outside the scope of EPA's authority under section 104(e) of CERCLA.

2. UNC objects to the Request, including the requests for production of documents contained therein, to the extent it seeks information that is not required to be furnished by section 104(e), is outside the scope of the investigation authorized by section 104(e)(1), or is not relevant to the specific types of information specified in § 104(e)(2)(A)-(C), that is: (a) the identification, nature and quantity of materials generated, treated stored or disposed of at the relevant site(s); (b) the nature or extent of any release or threatened release of a hazardous substance at the relevant site(s); or (c) the ability of any person to pay for or perform a cleanup at the relevant site(s).

3. UNC objects to the Request, including the requests for production of documents contained therein, to the extent that: (a) it is unreasonably broad; (b) it is unduly burdensome; (c) it is unreasonably vague; (d) it seeks information that could be as readily located and identified by EPA as by UNC; or (e) it is duplicative.

4. UNC objects to the Request, including the requests for production of documents contained therein, to the extent it seeks to impose on UNC an obligation to seek or obtain information or documents from third persons or which otherwise are not in UNC's possession, custody, or control.

5. UNC objects to the Request, including the requests for production of documents contained therein, to the extent that it seeks the disclosure of information or documents protected by the attorney-client privilege, the attorney work-product doctrine, the self-evaluation privilege, the right of privacy laws, the protection afforded trade secrets, or any other applicable privilege, protection, or immunity.

6. UNC objects to the Request, including the requests for production of documents contained therein, to the extent that it is arbitrary and capricious, an abuse of discretion, or otherwise not in accordance with the law as provided in section 104(e)(5)(B)(ii) of CERCLA.

OBJECTIONS TO INSTRUCTIONS AND DEFINITIONS

Without waiving or limiting its General Objections, UNC makes the following Objections to the Instructions and Definitions in the Request, and incorporate their Objections to the Instructions and Definitions into each of the written responses that follow.

1. UNC objects to Definition No. 10 insofar as it defines “you” or “Respondent” to apply to “contractors, trustees, partners . . . and agents” on the grounds that the Definition is overly broad and that to respond to any request using this Definition would be unduly burdensome and beyond the scope of UNC’s obligations under section 104(e) of CERCLA.

2. UNC objects to Definition No. 9, “Site,” as vague, overbroad, and circular. The definition does not identify the particular sites which are the subject of the Request. From the Request itself, UNC understands that the term “Site” means the San Mateo Creek Basin Legacy Uranium Mines identified in Question No. 1 to the Request, and located in Cibola and McKinley County, New Mexico.

ATTACHMENT D**Borehole/Gamma Logs**

UNC has identified borehold and gamma log information for the following locations. All of this information is confidential business information:

1. Box 444400830**1976 Ann Lee Section 28 Assessment (8/18/1976)**

Gamma chart; Borehole 17/50
McKinley, New Mexico
Section 28; Township 14N; Range 9W
Area = Ambrosia Lake

1976 Ann Lee Section 28 Assessment (8/5/1976)

Gamma chart; Borehole 28-16.5/53
McKinley, New Mexico
Section 28
Area = Ambrosia Lake

1959 Gamma Log (3/17/1959)

Gamma Chart; Borehole ?
McKinley, New Mexico
Section 28; Township 14N; Range 9W
Area: Ambrosia Lake

1958 Gamma Log (11/6/1958)

Gamma Chart; Borehole 28-14-9
McKinley, New Mexico
Section 28; Township 14N; Range 9W
Area = Anne Lee Mine

Gamma Log (unknown)

Section 28; Township 14N; Range 9W
Gamma Chart; Borehole 28-1

<u>Gamma Log (3-4-56)</u> Gamma Chart Log; Borehole 28-2 §28; T14N; R9W	<u>Gamma Chart (3-12-56)</u> Bore 28-11 §28; T14N; R9W	<u>Gamma Chart (6/14/56 & 6/18/56)</u> 28-19A §28; T14N R9W
<u>Gamma Chart (3-8-56)</u> Bore 28-3 §28; T14N; R9W	<u>Gamma Chart (8/6/56)</u> Bore 28-12A §28; T14N; R9W	<u>Gamma Chart</u> Bore 28-20 §28; T14N; R9W
<u>Gamma Chart (8-7-56)</u> Bore 28-4A §28; T14N; R9W	<u>Gamma Chart</u> Bore 28-13 §28; T14N; R9W	

<u>Gamma Chart (?)</u> Bore 28-5 §28; T14N; R9W	Gamma Chart Bore 28-14 §28; T14N; R9W [note] Bore 28-15 missing	
<u>Gamma Chart (3/2/56)</u> Bore 28-6 §28; T14N; R9W	<u>Gamma Chart (3/13/56)</u> Bore 28-15A §28; T14N; R9W	<u>G.C. (ALL)</u> §28; 14N; 9W)
<u>Gamma Chart (3/4/56)</u> Bore 28-7 §28; TWP 14N; RGE. 9W	<u>Gamma Chart (3/2/56)</u> Bore 28-16 §28; T14N; R9W	28-21 IBID
<u>Gamma Chart</u> Bore 28-8 §28; T14N; R9W	<u>Gamma Chart (3/17/56)</u> Bore 28-17 §28; T14N; R9W	
Gamma Chart Bore 28-9 §28; T14N; R9W §	<u>Gamma Chart</u> Bore 28-18 §28; T14N; R9W	Gamma Chart All are §28; T14N; R9WII Bore Hole 28-22. 28-23. 28-24 3/17/56 28-25 28-27 3/23/56 28-28 28-29 3/27/56 28-30 3/29/56 28-31 4/4/56 28-32 3/21/56 28-33 3/31/56 28-34 4/9/56 28-35 3/23/56 28-36 3/26/56 28-37; 3/20/56 & 10/10/60 28-39 5/24/56
Gamma Chart Bore 28-10 §28; T14N; R9W		Black Binder Drift & Gamma Logs for: San Mateo, Sandstone, Anne Lee §27 (East & West)
<u>Gamma Charts, Continued</u>		
28-38; T14N; R9W; T14N; R9W; 3/20/56 & 10/10/60; Ambrosia – 28-70; T14N; R9W; 5/30/58		
28-39; T14N; R9W; 4/56; Ambrosia – 28-71 T14N; R9W; 6/6/56, 7/16/56 & 10/16/58		
28-40; T14N; R9W; 4/17/56; Ambrosia –		
28-41; T14N; R9W; Ambrosia		
28-42; T14N; R9W – 28-72; T14N; R9W; 6/12/56 & 12/24/58		
Missing 28-43; Ambrosia		
28-44; T14N; R9W; 4/25/56; 28-73; T14N; R9W; 6/19/56		
28-45; T14N; R9W; 4/30/56; 28-74; T14N; R9W; 6/11/54		
28-46; T14N; R9W; 5/8/56; 28-75; T14N; R9W; 6/27/56 & 12/31/ 58		
28-47; T14N; R9W; 5/3/56; Ambrosia		

Missing	28-48; 28-76; T14N; R9W; 6/15/56
	28-49; T14N; R9W; 5/10/56; 28-77; T14N; R9W; 6/27/56 & 12/31/58; Ambrosia
	28-50; T14N; R9W; 5/8/56 & 10/7/58; Ambrosia
	28-51; T14N; R9W; 28-78; T14N; R9W; 6/15/56
	28-52; T14N; R9W; 6/16/56; 28-79; T14N; R9W; 5/30/56 & 12/10/58
Missing	28-53; Ambrosia
	28-54; T14N; R9W; 5/22/54; 28-80; T14N; R9W; 5/31/56
	28-55; T14N; R9W; 5/23/56; 28-81; T14N; R9W; 6/9/56 & 10/6/58
	28-56; T14N; R9W; 5/16/56; Ambrosia
	28-57; T14N; R9W; 5/13/56; 28-82; T14N; R9W; 6/20/56 & 6/14/61
	28-58; T14N; R9W; 5/12/56; Ambrosia
	28-59; T14N; R9W; 5/4/56; 28-83; T14N; R9W; 6/22/56
	28-60; T14N; R9W; 5/22/56; 28-84; T14N; R9W; 6/22/56
	28-61; T14N; R9W; 5/25/56; 28-85; T14N; R9W; 6/22/56
	28-62; T14N; R9W; 5/28/56; 28-86; T14N; R9W; 6/24/56
	28-63; T14N; R9W; 5/30/56; 28-85; T14N; R9W; 6/16/56 & 10/15/58
Missing	28-64; Ambrosia
	28-65; T14N; R9W; 5/15/56; 28-88; T14N; R9W; 6/16/56 & 10/27/58
	28-66; T14N; R9W; 5/29/56; Ambrosia
	28-67; T14N; R9W; 28-89; T14N; R9W; 6/9/56 & 10/27/58
	28-68; T14N; R9W; 5/25/56; Ambrosia
	28-69; T14N; R9W; 5/24/56
	28-70; T14N; R9W; 5/30/56
	28-71; T14N; R9W; 6/6/56, 7/16/56 & 10/16/58; Ambrosia
	28-72; T14N; R9W; 6/12/56 & 10/24/58; Ambrosia
	28-73; T14N; R9W; 6/19/56
	28-74; T14N; R9W; 6/11/54
	28-75; T14N; R9W; 6/27/56 & 12/31/58; Ambrosia
	28-76; T14N; R9W; 6/15/56
	28-77; T14N; R9W; 6/27/56 & 12/31/58; Ambrosia
	28-78; T14N; R9W; 6/16/56
	28-79; T14N; R9W; 5/30/56 & 12/10/58; Ambrosia
	28-80; T14N; R9W; 5/31/56
	28-81; T14N; R9W; 6/9/56 & 10/6/58; Ambrosia
	28-82; T14N; R9W; 6/20/56 & 6/14/61; Ambrosia
	28-83; T14N; R9W; 6/22/56
	28-84; T14N; R9W; 6/22/56
	28-85; T14N; R9W; 6/22/56
	28-86; T14N; R9W; 6/24/56
	28-87; T14N; R9W; 6/16/56 & 10/15/58; Ambrosia
	28-88; T14N; R9W; 6/16/56 & 10/27/58; Ambrosia

28-89; T14N; R9W; 6/9/56 & 10/27/58; Ambrosia
28-90; T14N; R9W; 6/8/56 & 10/20/58; Ambrosia
28-91; T14N; R9W; 6/9/56
28-92; T14N; R9W; 6/10/56 & 10/27/58; Ambrosia
28-93; T14N; R9W; 6/18/56
28-94; T14N; R9W; 6/11/56
28-95; T14N; R9W; 7/1/56
28-96; T14N; R9W; 6/20/56
28-97; T14N; R9W; 6/11/56 & 10/22/58; Ambrosia
Missing 28-98
28-99; T14N; R9W; 7/23/56
28-100; T14N; R9W; 7/12/56
28-101; T14N; R9W; 7/24/56
28-102; T14N; R9W; 6/14/56
28-103; T14N; R9W; 6/18/56 & 9/15/58
28-104; T14N; R9W; 6/14/56
28-105; T14N; R9W; 6/19/56 & 10/16/58; Ambrosia
28-106; T14N; R9W; 6/18/56
28-107; T14N; R9W; 6/20/56 & 9/16/58; Ambrosia
28-108; T14N; R9W; 6/20/56
28-109; T14N; R9W; 7/25/56
28-110; T14N; R9W; 7/2/56 & 1/2/59; Ambrosia
28-111; T14N; R9W; 6/30/56 & 12/10/58; Ambrosia
Missing 28-112
28-113; T14N; R9W; 7/8/56
Missing 28-114
28-115; T14N; R9W; 8/3/56
28-116; T14N; R9W; 6/22/56
28-117; T14N; R9W; 6/18/56
28-118; T14N; R9W; 6/24/56 & 10/15/58; Ambrosia
28-119; T14N; R9W; 6/21/56
28-120; T14N; R9W; 6/22/56 & 3/7/60
28-121; T14N; R9W; 6/22/56 & 1/21/59; Ambrosia
28-122; T14N; R9W; 6/26/56
28-123; T14N; R9W; 7/13/56 & 10/28/58; Ambrosia
28-124; T14N; R9W; 7/11/56
28-125; T14N; R9W; 7/9/56
28-126; T14N; R9W; 7/2/56 & 10/27/58; Ambrosia
28-127; T14N; R9W; 7/9/56 & 10/20/58; Ambrosia
28-128; T14N; R9W; 7/1/56
28-129; T14N; R9W; 6/24/56

28-130; T14N; R9W; 6/24/56 & 1/19/59; Ambrosia
28-131; T14N; R9W; 6/24/56
28-132; T14N; R9W; 7/19/56
28-133; T14N; R9W; 7/24/56
28-134; T14N; R9W; 6/25/56
28-135; T14N; R9W; 6/26/56
28-136; T14N; R9W; 6/26/56
28-137; T14N; R9W; 6/26/56 & 1/9/59; Ambrosia
28-138; T14N; R9W; 6/27/56 & 4/3/59; Ambrosia
28-139; T14N; R9W; 6/28/56
28-140; T14N; R9W; 6/27/56
28-141; T14N; R9W; 6/27/56
28-142; T14N; R9W; 6/26/56
28-143; T14N; R9W; 6/30/56
28-144; T14N; R9W; 7/8/56
28-145; T14N; R9W; 6/30/56; 2/11/59 & 2/18/59; Ambrosia
28-146; T14N; R9W; 7/21/56
28-147; T14N; R9W; 7/23/56
28-148; T14N; R9W; 7/26/56
28-149; T14N; R9W; 7/30/56
28-150;
28-151; T14N; R9W; 7/25/56
28-152; T14N; R9W; 7/56
28-153; T14N; R9W; 7/11/56 & 1/12/59; Ambrosia
28-154; T14N; R9W;
28-155; T14N; R9W; 7/1/56 & 10/14/58; Ambrosia
28-156; T14N; R9W; 7/26/56
28-157; T14N; R9W; 7/2/56
28-160; T14N; R9W; 7/22/56
28-161; T14N; R9W; 7/17/61
28-162; T14N; R9W; 7/10/56 & 5/11/59; Ambrosia
28-163; T14N; R9W; 7/2/56
28-164; T14N; R9W; 7/7/56 & 2/25/69; Ambrosia
28-165; T14N; R9W; 7/14/56
28-166; T14N; R9W; 7/14/56
28-167; T14N; R9W; 12/17/59; Ambrosia
28-168; T14N; R9W; 7/8/56
28-169; T14N; R9W; 7/11/56
28-170; T14N; R9W; 7/16/56
28-171; T14N; R9W; 7/18/56
28-172; T14N; R9W; 7/26/56 & 10/14/58; Ambrosia

28-173; T14N; R9W; 7/31/56 & 10/15/58; Ambrosia
Missing 28-174
28-175; T14N; R9W; 7/17/56
28-176; T14N; R9W; 7/17/56
28-177; T14N; R9W; 7/12/56 & 2/25/59; Ambrosia
28-178; T14N; R9W; 7/11/56 & 5/11/59; Ambrosia
28-179; T14N; R9W; 7/17/56 & 6/25/59; Ambrosia
28-180; T14N; R9W; 7/16/56
28-181; T14N; R9W; 7/16/56
28-182; T14N; R9W; 7/18/56
28-183; T14N; R9W; 7/19/56
28-184; T14N; R9W; 8/31/56
28-185; T14N; R9W; 7/19/56
28-186; T14N; R9W; 7/18/56
28-187; T14N; R9W; 7/19/56
28-188; T14N; R9W; 7/20/56
28-189; T14N; R9W; 7/20/56
28-190; T14N; R9W; 7/22/56
28-191; T14N; R9W; 7/21/56
28-192; T14N; R9W; 7/25/56
28-193; T14N; R9W; 7/21/56 & 3/6/59; Ambrosia
28-194; T14N; R9W; 7/23/56 & 6/24/59; Ambrosia
28-195; T14N; R9W; 7/23/56
28-196; T14N; R9W; 7/23/56
28-197; T14N; R9W; 7/25/56 & 5/12/59; Ambrosia
28-198; T14N; R9W; 7/26/56
28-199; T14N; R9W; 8/6/56
28-200; T14N; R9W; 7/25/56 & 1/13/59; Ambrosia
28-201; T14N; R9W; 8/5/56
28-202; T14N; R9W; 8/2/56
28-203; T14N; R9W; 8/2/56
28-204; T14N; R9W; 7/31/56
28-205; T14N; R9W; 8/2/56 & 3/2/59; Ambrosia
28-206; T14N; R9W; 8/1/56 & 3/17/59; Ambrosia
28-207; T14N; R9W; 8/1/56
28-208; T14N; R9W; 8/6/56 & 6/29/59; Ambrosia
28-209; T14N; R9W; 8/2/56 & 6/24/59; Ambrosia
28-210; T14N; R9W; 8/2/56
28-211; T14N; R9W; 7/31/56 & 2/25/59; Ambrosia
28-212; T14N; R9W;
28-213; T14N; R9W; 8/5/56

28-214; T14N; R9W; 8/3/56
28-215; T14N; R9W; 8/13/56
28-216; T14N; R9W; 85/56 & 6/24/59; Ambrosia
Missing 28-217
28-218; T14N; R9W; 9/27/56
28-219; T14N; R9W; 10/4/56
28-220; T14N; R9W; 10/9/56
28-221; T14N; R9W; 9/11/58 & 10/7/58 (221-4)
28-222; T14N; R9W; 8/18/56 & 10/15/58; Ambrosia
28-223; T14N; R9W; 8/21/56
28-224; T14N; R9W; 8/19/56 & 1/9/59
Missing 28-225
Missing 28-226
28-227; T14N; R9W; 8/23/56 & 1/12/59; Ambrosia
Missing 28-228
Missing 28-229
Missing 28-230
Missing 28-231
Missing 28-232
Missing 28-233
Missing 28-234
Missing 28-235
Missing 28-236
Missing 28-237
Missing 28-238
Missing 28-239
Missing 28-240
Missing 28-241
Missing 28-242
28-243; T14N; R9W; 8/7/56
28-244; T14N; R9W; 8/6/56
28-245; T14N; R9W; 8/8/56
28-246; T14N; R9W; 2/12/60; Ambrosia
28-247; T14N; R9W; 8/15/56
28-248; T14N; R9W; 8/14/56
28-249; T14N; R9W; 8/16/56
28-250; T14N; R9W; 8/28/56
28-251; T14N; R9W; 8/30/56 & 6/21/58; Ambrosia
28-252; T14N; R9W; 9/3/56
28-253; T14N; R9W; 9/4/56
28-254; T14N; R9W; 9/5/56 & 3/2/59; Ambrosia Lake

28-255; T14N; R9W; 9/6/56 & 3/17/59; Ambrosia	
28-256; T14N; R9W; 9/10/56 & 3/18/59; Ambrosia	
28-257; T14N; R9W; 10/30/56	
28-258; T14N; R9W; 11/1/56	
28-259; T14N; R9W; 11/10/56	
28-260; T14N; R9W; 10/27/56	
28-261; T14N; R9W; 11/8/56	
28-262; T14N; R9W; 11/6/56	
28-263; T14N; R9W; 10/1/56	
28-264; T14N; R9W; 9/24/56	
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Missing	28-266
Missing	28-267
Missing	28-268
Missing	28-269
28-270; T14N; R9W; 10/17/56	
Missing	28-271
Missing	28-272
Missing	28-273
Missing	28-274
Missing	28-275
28-276; T14N; R9W; 10/4/56	
28-277; T14N; R9W; 10/12/56 & 11/4/60; Ambrosia	
28-278; T14N; R9W; 10/25/56	
Missing	28-279
28-280; T14N; R9W; 9/28/56	
28-281; T14N; R9W; 10/1/56	
28-282; T14N; R9W; 9/24/56	
28-283; T14N; R9W; 9/26/56 & 10/7/58; Ambrosia	
28-284; T14N; R9W; 9/19/56	
28-285; T14N; R9W; 9/29/56	
28-286; T14N; R9W; 10/3/56	
28-287; T14N; R9W; 10/23/56	
Missing	28-288
Missing	28-289
Missing	28-290
28-291; T14N; R9W; 11/20/56	
28-292; T14N; R9W; _____	
28-293; T14N; R9W; 11/12/56	
28-294; T14N; R9W; 11/14/56	
28-295; T14N; R9W; 11/14/56	

28-296; T14N; R9W; 11/25/56
28-297; T14N; R9W; 11/21/56
28-298; T14N; R9W; 11/26/56

Anne Lee – Section 28

Plan view Direction Drift Survey

Drift Survey Tabulation Sheet

Logging Data with attached seismic graphs – Natural Gamma Ray

Borehole Data:

Box # 500061094/1993 – detailed mine maps and plans of the Sandstone Mine in T14N, R9W, Section 34; monthly advancement of the mine works, and projected and confirmed ore zones and reserves, as well as other underground features (stopes, raises, “waste” zones). Each map shows borehole locations accompanied by data associated with each borehole on ore reserve and grade at that borehole location. The box also contains ore tonnage tables. Each map denotes United Nuclear Corp. or Phillips Petroleum.

Borehole Data:

Box # 444400831/331 - collection of large Phillips Petroleum maps of the Sandstone and Ann Lee mines (T14, R9, Sects. 34 and 28 respectively), showing mine infrastructure and workings and ore zones, and borehole locations, including data for ore grade, thickness and elevation for each bore hole.

Gamma Logs:

Gamma logs were taken at the Sandstone (Section 34, Township 14N, Range 9W) and Ann Lee (Section 28, Township 14N, and Range 9W) mines. There were also gamma logs for Section 27, Township 14N, Range 9W.

Borehole Data:

Box # 444400831/331 has a collection of large Phillips Petroleum maps of the Sandstone and Ann Lee mines (T14, R9, Sects. 34 and 28 respectively), showing mine infrastructure and workings and ore zones, and bore hole locations, including data for ore grade, thickness and elevation for each bore hole.

Borehoe Data/Maps

Box # 500061094/1993 containing mostly very detailed mine maps and plans of the Sandstone Mine in T14N, R9W, Sect. 34), which show monthly advancement of the mine works, and projected and confirmed ore zones and reserves, as well as other underground features (stopes, raises, “waste” zones). Each map shows borehole locations accompanied by data associated with each borehole on ore reserve and grade at that borehole location. The box also contains ore tonnage tables. Each map denotes United Nuclear Corp. or Phillips Petroleum.



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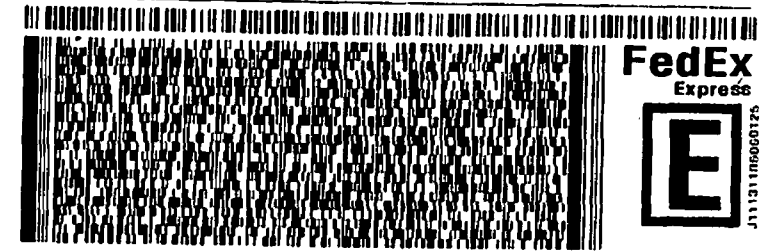
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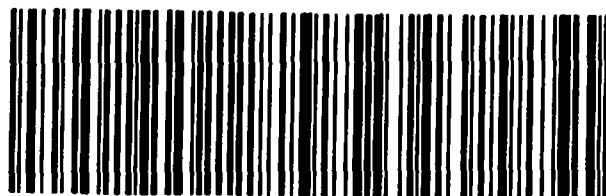
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